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BIBLIOGRAPHY OF AGRICULTURE

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Vol. 33

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Literature received more than one year after publication is generally not indexed. Exceptions are made for important scientific publications.

Indexing of articles on the processing of agricultural products is limited to those on primary processing.

Unsigned articles and those signed with pseudonyms or initials, editorials, letters to the editor, and columns appearing regularly, are omitted.

For more detailed coverage of the literature on pests and their control, please consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

FORMAT

The Bibliography is a classified arrangement of references under the following subjects:

USDA Publications

State Agricultural Experiment Station Publications

State Agricultural Extension Service Publications

Agricultural Economics and Rural Sociology

Agricultural Products

Animal Industry

Engineering

Entomology

Food and Human Nutrition

Forestry

Plant Science

Soils and Fertilizers

Miscellaneous

The classified section is followed by the listing of:

New Periodicals and Serials

Translations

Food and Agriculture Organization of the United Nations (FAO) Publications

The last section of each monthly issue, except November, is the Author and subject index for that issue.

For monographs the title is shown in the original language, followed by the English version. Titles of foreign language articles in serial publications are given in English only; the language of the text is shown in abbreviated form in parentheses at the end of the title. The following notations are used:

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Following each citation is the Library classification number which should be used when requesting loans or reproduction of articles.

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AGRICULTURAL RESEARCH SERVICE

34214 Wolfe, R. D., and Hatch, C. L.
DUTCH ELM DISEASE DETECTED IN MISSISSIPPI. Plant Dis. Rep. 53(1):3. Jan. 1969. 1.9 P69P
Caused by *Ceratocystis ulmi* on *Ulmus* spp.

34215 Sowell, G., and Harris, H. B.
DOWNY MILDEW OF SORGHUM IN GEORGIA. Plant Dis. Rep. 53(1):4. Jan. 1969. 1.9 P69P
Caused by *Sclerospora sorghi*.

34216 Cameron, H. R.
STEM PITTING OF ITALIAN PRUNE. Plant Dis. Rep. 53(1):4-6. Jan. 1969. 1.9 P69P
Causal organism unknown.

34217 Mircetich, S. M., and Fogle, H. W.
STEM PITTING IN PRUNUS SPP. OTHER THAN PEACH. Plant Dis. Rep. 53(1):7-11. Jan. 1969. 1.9 P69P

Stem pitting now has been observed in several *Prunus* spp. Symptoms are variable and differ according to species and stage of the disease. Those in peach, nectarine, and apricot have been described in earlier papers. Occurrence of the disease in European plum (*P. domestica*), Japanese plum (*P. salicina*), a plum hybrid (*P. cerasifera* var. *divaricata* x *P. spinosa*), Chinese wild peach (*P. davidiana*), duke cherry (*P. gondouini*), and St. Lucie cherry (*P. mahaleb*) is reported for the first time. Stem pitting in sour cherry (*P. cerasus*) is noted for the first time in the United States.

34218 Bell, D. K.
RELATIVE SUSCEPTIBILITY OF THREE PEANUT CULTIVARS TO FAT LEG (SEEDLING GROWTH ANOMALY) CAUSED BY SEED TREATMENT WITH AN ORGANIC MERCURY FUNGICIDE. Plant Dis. Rep. 53(1):13-14. Jan. 1969. 1.9 P69P

Seed of peanut cultivars Starr, Florigiant, and Early Runner representing commercial seed types Spanish, Virginia, and runner, respectively, were treated with 2% ethylmercury chloride (EMC, 2% Ceresan Red) in separate lots at rates of 3, 4, 5, 6, 7, and 8 oz per 100 lb of seed and planted in the field in replicates. Emergence of Florigiant and Early Runner was delayed at the higher rates of EMC. Fat leg, a phytotoxic reaction in germinating seed, occurred in all cultivars and at all rates but generally tended to increase with rate. Chlorosis and stunting of older plants, apparently a separate phytotoxic reaction, was evident in all cultivars at the higher rates. Early Runner sustained the greatest numbers of fat leg and chlorotic-stunted plants. The least amount of fat leg occurred in Starr; Florigiant was intermediate. No fat leg or chlorotic-stunted plants occurred in the controls. There was no significant difference across rates within cultivars in hypocotyl length and diameter and length of the main axis of apparently normal plants.

34219 Kumar, A. C., and D'Souza, G. I.
PATHOGENICITY OF HEMICRICONEMOIDES SPECIES TO COFFEE. Plant Dis. Rep. 53(1):15-16. Jan. 1969. 1.9 P69P

An unidentified species of *Hemicriconemoides* was found to be a potential parasite of coffee in south India. It induces stunting in stem height, root length, and root weight of robusta and arabica seedlings.

34220 Scott, D. H., and others.
RESISTANCE OF STRAWBERRY VARIETIES TO LEAF SCORCH DISEASE. Plant Dis. Rep. 53(1):16-18. Jan. 1969. 1.9 P69P

A. D. Draper, J. R. McGrew, and I. C. Haut, joint authors.

Relative susceptibility to leaf scorch (*Diplocarpon earliana*) is given for several modern strawberry cultivars under field conditions in Maryland. The most resistant cultivars were Allbritton, Fletcher, Earlibelle, Howard 17 (Premier), and Md-US 2915.

34221 Fisher, F. E.
CHEMICAL CONTROL OF SCAB ON CITRUS IN FLORIDA. Plant Dis. Rep. 53(1):19-22. Jan. 1969. 1.9 P69P

In a series of field trials on mature trees of lemon, Temple orange, and grapefruit, ferbam 1.5 lb/100 gal. controlled scab (*Elsinoe fawcettii*) effectively. In one test with grapefruit, ferbam plus TPTH 0.25 lb (as a 20% formulation) resulted in more effective control than ferbam. Helicopter applications of fungicides were not effective for scab control. Sprays were applied as delayed dormant or "pin-point" growth, and repeated during the bloom when approximately two-thirds of the petals had fallen.

34222 Ginns, J. H., and Driver, C. H.
[FOMES] ANNOSUS ROOT-ROT IN SLASH PINE [PINUS ELLIOTTII ELLIOTTII] PLANTATIONS FOUR YEARS AFTER THINNING AND STUMP TREATMENTS. Plant Dis. Rep. 53(1):23-25. Jan. 1969. 1.9 P69P

The absence of root-rot centers and infected trees indicated that urea treatment of stumps will prevent disease occurrence. Creosote ranked second of the six chemicals evaluated, but elsewhere has not prevented the disease. Other chemicals used, in decreasing order of effectiveness, were ammonium sulfamate, pentachlorophenol, tributyltin oxide in water, ammonium bifluoride, and tributyltin oxide in oil.

34223 Zaumeyer, W. J., and Wester, R. E.
THE RAPID DEVELOPMENT AND SPREAD OF
STRAIN B DOWNY MILDEW OF LIMA BEANS. Plant Dis.
Rep. 53(1):25-26. Jan. 1969. 1,9 P69P
Phytophthora phaseoli.

34224 Nelson, M. R., and McKittrick, R. T.
EPIDEMIOLOGY OF CUCUMBER MOSAIC
AND OTHER VIRUS DISEASES OF LETTUCE IN ARIZO-
NA. Plant Dis. Rep. 53(1):27-29. Ref. Jan. 1969.
1,9 P69P

Cucumber mosaic virus (CMV) was found in Arizona head lettuce. The disease was not widespread but confined to areas near cities and towns where ornamentals, which serve as virus reservoirs, are found. The symptoms of CMV in lettuce cannot be distinguished from those of lettuce mosaic (LMV).

Some lettuce plants showed symptoms suggestive of spotted wilt virus; numerous transmission attempts failed to prove its presence.

Heavy infections of lettuce by LMV, despite the use of mosaic-tested seed, were found. Ornamentals possibly serve as sources of this infection based upon distribution of LMV in fields planted with mosaic-tested seed.

34225 Desjardins, P. R.
ALFALFA MOSAIC VIRUS-INDUCED LESIONS
ON BEAN; EFFECT OF LIGHT AND TEMPERATURE.
Plant Dis. Rep. 53(1):30-33. Ref. Jan. 1969. 1,9 P69P

Studies were made of the character of local lesions produced by the potato calico strain of alfalfa mosaic virus on bean leaves under different conditions of light and darkness and at three different temperatures. Postinoculation dark treatment affected the size, the amount of necrosis, and the extent of pigmentation of the lesion. Postinoculation light treatment generally resulted in smaller and more highly pigmented lesions. Temperature studies were based on average maximum daily temperature and were not carried out under controlled temperature conditions. The results indicated that temperature mainly affects the size of the lesion.

34226 Johnson, D. E., and others.
MULTIPLE APPLICATIONS OF 1,2-DIBROMO-3-CHLOROPROPANE FOR CONTROL OF NEMATODES
IN ESTABLISHED ROSE PLANTINGS. Plant Dis. Rep. 53(1):34-37. Jan. 1969. 1,9 P69P

B. Lear, S. T. Miyagawa, and R. H. Sciaroni, joint authors.
The experiments described show that multiple applications of 1,2-dibromo-3-chloropropane (DBCP) reduce the numbers of *Xiphinema americanum* and *Meloidogyne hapla* in the soil around the roots of greenhouse roses. An increased production of cut roses was associated with the reduced nematode population.

34227 Sen, A. K., and Jensen, H. J.
HOST-PARASITE RELATIONSHIPS OF VARIOUS PLANTS AND THE HOP CYST NEMATODE, *HETERODERA HUMULI*. Plant Dis. Rep. 53(1):37-40. Ref. Jan. 1969. 1,9 P69P

Thirty species of plants were tested to determine their susceptibility to *Heterodera humuli*. The host range of this nematode is predominantly in Urticaceae but it also will infect some plants in Cruciferae (mustard), Cucurbitaceae (cucumber), Leguminosae (bean, clover, pea and vetch) and Moraceae (hemp). New host plants reported here are bush bean, white clover, Boston pickling cucumber, black mustard, Perfection pea and hairy vetch.

34228 Zawadzka, B., Millikan, D. F., and Cochran, L. C.
INFLUENCE OF THE PROLIFERATION VIRUS
UPON THE QUALITY AND QUANTITY OF APPLE
FRUITS. Plant Dis. Rep. 53(1):41-43. Jan. 1969. 1,9 P69P

The proliferation virus reduces the yield and quality of fruit on infected apple trees. This reduction is expressed in lower numbers and smaller size of fruit. Overall reduction varied from about 85% in McIntosh to 27% for the more tolerant Beauty of Boskoop. The reduction in the extra grade ranged from 95% for McIntosh to 31% for Red Delicious.

34229 Gupta, S. C., Sharma, L. C., and Dalela, G. G.
OCCURRENCE OF OROBANCHE CERNUA ON
PLUCHEA LANCEOLATA, AN OBNOXIOUS WEED IN
RAJASTHAN, INDIA. Plant Dis. Rep. 53(1):43-44. Jan. 1969. 1,9 P69P

Control of both on field crops.

34230 Olson, E. O., and Rogers, B.
EFFECTS OF TEMPERATURE ON EXPRESSION
AND TRANSMISSION OF STUBBORN DISEASE OF
CITRUS. Plant Dis. Rep. 53(1):45-49. Ref. Jan. 1969. 1,9 P69P

Grapefruit and oranges.
Abstract, p.45.

34231 Chandler, W. A.
REDUCTION IN MORTALITY OF PEACH
TREES FOLLOWING PREPLANT SOIL FUMIGATION.
Plant Dis. Rep. 53(1):49-53. Ref. Jan. 1969. 1,9 P69P

Preplant soil fumigation in a peach orchard where the original planting was heavily infected with *Clitocybe root rot* resulted in significantly better tree growth for 3 years. Reduction in populations of several types of parasitic nematodes (*Pratylenchus* sp., *Xiphinema* sp., and *Criconeoides* sp.) was observed for 1 or 2 years following soil treatment with 1,2-dibromo-3-chloropropane (DBCP), carbon disulfide, and tetrahydro-2H-3,5-dimethyl-1,3,5-thiadiazine-2-thione (DMTT). Tree losses during the first 3 years were 20% following carbon disulfide or DMTT. Tree losses of 53.3% following

DBCP were nearly as severe as the 66.7% in the check treatment. The reduction in tree deaths following fungicides but not following a nematocide suggests that control of a fungus pathogen was involved. The abundance of *Clitocybe tabescens* in roots of dying trees, both original and replanted, indicates that this was the pathogen controlled by the fungicides used.

34232 Brennan, E., and Leone, I. A.
AIR POLLUTION DAMAGE TO CHRYSANTHEMUM
FOLIAGE. Plant Dis. Rep. 53(1):54-55. Jan. 1969. 1,9 P69P

Chrysanthemum, one of the most popular florist crops in the United States, has shown symptoms of air pollution injury a number of times in the past few years in New Jersey greenhouses. Surveys made of chrysanthemum in several greenhouses indicated that there were varietal differences in susceptibility and that cultural conditions resulting in rapid vegetative growth were conducive to plant injury. The nature of the symptoms and the spectrum of plants injured suggested peroxyacetyl nitrate (PAN) as the responsible pollutant in these cases.

34233 Ruppel, E. G.
DISEASES OF SUGARBEEF IN ARIZONA.
Plant Dis. Rep. 53(1):56-58. Jan. 1969. 1,9 P69P

Between 1965 and 1968, beet western yellows, beet yellows, curly top, beet mosaic, cucumber mosaic, yellow vein, and rosette virus diseases were observed in sugarcane in Arizona. Yellows (western and beet) and curly top were in highest incidence and are most important in the State. Other virus diseases occurred in trace amounts. The virus diseases predominate in the arid regions of central Arizona.

Root rots (*Rhizoctonia*, *Pythium*, and *Sclerotium*), leaf spot (*Cercospora*), and root-knot nematodes are serious threats to beet production in the higher, cooler, elevations of the State. Ramularia and Phoma leaf spots

also were present but are considered unimportant at present.

Rust (*Uromyces*) occurred under certain environmental conditions in central Arizona, but the disease was usually suppressed by high temperatures and was of little economic importance.

Lesion and stunt nematodes were associated with a wilt of beet in central Arizona, but their causal relationship could not be established definitely. Symptoms of the disease consisted of an incipient wilt of the foliage, whereas the roots were flaccid and almost devoid of secondary and lateral roots.

34234 Daniels, N. E., and Toler, R. W.
TRANSMISSION OF MAIZE DWARF MOSAIC
BY THE GREENBUG, *SCHIZAPHIS GRAMINUM*. Plant Dis. Rep. 53(1):59-61. Jan. 1969. 1,9 P69P

Efficient transmission of the Johnson grass strain of sugarcane mosaic virus (SMV-Jg), the causal agent of the maize dwarf mosaic disease (MDM), by the greenbug (*Schizaphis graminum* (Rond.)) is reported. Transmission was achieved from sorghum to sorghum. Virus transmission was obtained when the aphids were allowed acquisition observations of probes of 1 and 3 minutes and acquisition feeding for 24 hours on the virus-infected leaf material.

Josephson, L. M., and others.
34235 GRAIN YIELD OF CORN REDUCED BY MAIZE
DWARF MOSAIC VIRUS INFECTION. Plant Dis. Rep. 53
(1):61-63. Jan. 1969. 1.9 P69P
J. W. Hilty, J. M. Arnold, H. C. Kincer, and
J. R. Overton, joint authors.

In 1967, individual plants in three hybrids
growing in three locations in Tennessee were rated for
degree of virus infection and ear corn weights obtained.
Yields decreased as the degree of infection increased.
Plants with ratings of 6 or higher produced small ears of
corn. Mean differences in weight of ear corn between
plants of different virus ratings were all highly signifi-
cant. The linear regression of yield on rating was signifi-
cant for DeKalb 805A and Funk G-4831W, with an average
decrease of 44 and 86 grams per plant for each unit in-
crease in rating, respectively. Plants with only mosaic
symptoms in the top leaves were reduced in yield as
much as 32%, indicating the need for hybrids with com-
plete resistance when grown under conditions of high
virus incidence.

34236 Meredith, D. S.
FUNGAL DISEASES OF BANANAS IN HAWAII. Plant Dis. Rep. 53(1):63-66. Ref. Jan. 1969. 1.9 P69P

34237 Hoppe, P. E., and Kelman, A.
BACTERIAL TOP AND STALK ROT DISEASE
OF CORN IN WISCONSIN. Plant Dis. Rep. 53(1):66-70.
Ref. Jan. 1969. 1.9 P69P

Sequence of symptoms and disease develop-
ment of a bacterial top and stalk rot disease of corn,
observed after overhead irrigation, are described. Isolates
from Wisconsin have been compared with isolates of a
bacterium causing a similar disease in North Carolina
and also in Egypt. The cultures from the three geographic
areas were similar in key cultural and physiological
characters, as well as in pathogenic effects following
stalk inoculations of corn plants. In physiological studies
corn stalk rot isolates from Wisconsin, North Carolina,
and Egypt differed in a number of characteristics from
Erwinia carotovora. Isolates of *E. carotovora* tested
were nonpathogenic to corn. Corn stalk rot isolates were
more similar in key physiological characteristics to *E.*
chrysanthemi than to *E. carotovora*, although cultures of
E. chrysanthemi tested were also nonpathogenic to corn.

34238 Shanmugasundaram, S., and others.
CUCURBIT VIRUS STUDIES IN HAWAII. Plant
Dis. Rep. 53(1):70-74. Ref. Jan. 1969. 1.9 P69P
M. Ishii, J. C. Gilbert, and H. Nagai, joint
authors.

Strains of watermelon mosaic virus were iden-
tified by symptoms on differential hosts. Field samples
from the islands of Oahu, Kauai, and Hawaii included
WMV-1, WMV-2 and a third, apparently distinct strain of
WMV on Kauai as well as cucumber mosaic virus. Infected
host plants collected from these islands included cu-
cumber, squash, *Momordica charantia* var. *pavel* (a cu-
cubit weed), and *Commelina diffusa*. Some field samples
tested appeared to be infected with more than one of these
viruses. Strain analysis of cucumber mosaic virus was

not attempted in this study. CMV is of secondary impor-
tance in Hawaii to WMV as a production problem of cu-
curbits.

Resistance to single infections of WMV-1,
WMV-2, CMV and to a mixture of CMV and WMV-1 was
found to occur in the cucumber breeding line Hawaii 64-
A-15. More severe initial symptoms on this line were
produced by the WMV strain found on Kauai and the com-
bination of WMV-2 with either WMV-1 or CMV.

The commercial cucumber cultivar Burpee Hy-
brid was found to be susceptible to all the WMV isolates
either alone or in mixtures.

WMV-1 and WMV-2 were recovered from
Momordica on Oahu. CMV was recovered from *Comme-
lina* on Hawaii.

34239 Crall, J. M., and Schenck, N. C.
BACTERIAL FRUIT ROT OF WATERMELON
IN FLORIDA. Plant Dis. Rep. 53(1):74-75. Jan. 1969.
1.9 P69P

Causal organism unknown.

34240 Kliejunas, J. T.
ARCEUTHOBium PUSILLUM ON EASTERN
LARCH [LARIX LARICINA] IN WISCONSIN. Plant Dis.
Rep. 53(1):76. Jan. 1969. 1.9 P69P

Bhowmik, T. P.
34241 ALTERNARIA SEED INFECTION OF WHEAT.
Plant Dis. Rep. 53(1):77-80. Ref. Jan. 1969. 1.9 P69P

The incidence of black point disease of wheat
grains varies from 0.16 to 22.0 (average 2.3) percent.
Rainfall during the later stage of seed maturation favors
maximum infection (13 to 22%). *Alternaria tenuis* was the
principal pathogen (92%) involved, but isolations from
diseased grains yielded *A. triticina* (2%), *A. tenuis* in
association with *A. triticina* (3%), *Helminthosporium* sp.
(1%), *H. sorokinianum* (1%) and *Stemphylium* sp. (1%).
Fungal mycelium from the outer surface penetrated the
epidermal cells to cause seed infection. The dark brown
pericarp tissues of the base and embryo region contained
more abundant internal mycelium than did the beard re-
gion. No difference was found between *A. tenuis* and *A.*
triticina in the nature and extent of seed infection; both
formed dense mycelial mats between the inner surface
of the epidermis and cross layer cells, but the embryo
and the starchy region of the endosperm were neither
invaded nor discolored, and no inhibitory substance could
be detected to account for the absence of fungal mycel-
ium.

34242 Daines, R. H.
CONTROL OF BACTERIAL SPOT OF PEACH
IN NEW JERSEY. Plant Dis. Rep. 53(1):81-83. Jan. 1969.
1.9 P69P

Caused by *Xanthomonas pruni*.
Bacterial spot on peaches was the most destruc-
tive in memory in New Jersey during the 1968 grow-
ing season. Under these severe conditions, Terramycin
failed in commercial tests to control the disease; how-
ever, it was very effective in the control of bacterial spot
in an experimental block where it was applied to run-off
on a 7- to 10-day schedule, which was shortened following
heavy rains. The fungicide or insecticides used with Ter-
ramycin modified its effectiveness. All standard fungi-
cides failed in the control of bacterial spot.

34243 Katcho, Z. A., and Allow, J. M.
CITRUS-ROOT NEMATODE IN IRAN. Plant
Dis. Rep. 53(1):84. Jan. 1969. 1.9 P69P
Tylenchulus semipenetrans.

34244 Taylor, G. S.
A BLACK MILDEW, OF THE GENUS DIPORO-
THECA, FOUND ON ROOTS OF NICOTIANA TABACUM
IN CONNECTICUT. Plant Dis. Rep. 53(1):85-86. Jan.
1969. 1.9 P69P

34245 Goree, H.
OCCURRENCE OF CRYPTOSTROMA CORTI-
CALE IN NORTHWESTERN UNITED STATES. Plant Dis.
Rep. 53(1):87-88. Jan. 1969. 1.9 P69P

Washington.
On *Acer pseudoplatanus* in Washington.

34246 Harper, G. A.
STATUS OF THE DEVELOPMENT OF GLAND-
LESS COTTONSEED. U. S. Agr. Res. Serv. ARS-72-65:
34-38. Ref. Mar. 1968. A381 R31

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OECD [ORGANIZATION FOR ECONOMIC CO-
OPERATION AND DEVELOPMENT] AGRICULTURE NOW
THROUGH 1985. Foreign Agr. 7(8,i.e.9):3-5. Mar. 3,
1969. A281.9 F76Fo

OECD Director for Agriculture, Albert Siman-
tov, suggests new crop production patterns and new direc-
tions for international trade to balance the world market
for farm products.

Butler, W. F.
34248 DIFFICULTIES CLOUD THE OUTLOOK FOR
THE WORLD ECONOMY IN 1969. Foreign Agr. 7(8,i.e.9):
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Ioanes, R. A.
34249 LARGE WORLD CROPS, PROTECTIONISM
HURT U.S. FARM EXPORT PROSPECTS. Foreign Agr.
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West, Q. M.
34250 THE WORLD FOOD SITUATION IN PERSPEC-
TIVE. Foreign Agr. 7(8,i.e.9):9. Mar. 3, 1969.
A281.9 F76Fo

De Goede, C.
34251 NEW AUSTRALIAN DEVALUATION COMPEN-
SATIONS. Foreign Agr. 7(8,i.e.9):12-13. Mar.3,1969.
A281.9 F76Fo
Policies to compensate for trade disadvantages
resulting from neighboring nations' currency devalua-
tions.

Dodson, J. C.
34252 PARAGUAY; ANALYSIS OF 1968 FARM GAINS
AND LOSSES. Foreign Agr. 7(8,i.e.9):13. Mar.3,1969.
A281.9 F76Fo

Benson, J. M.
34253 FRENCH DISCUSSING SWITCH FROM MILK TO
MEAT OUTPUT. Foreign Agr. 7(8,i.e.9):16. Mar.3,1969.
A281.9 F76Fo
Policy to curb dairy industry and encourage
meat industry.

FOREST SERVICE

Richardson, B. Z.
34254 CABLE AND CLAMP MODIFICATIONS FOR
MODEL 104 MOISTURE PROBES. U. S. Forest Serv.
Res. Note INT-76,4 p. 1968. A99.9 F764Un
Two Troxler depth moisture gages equipped
with Model 104 probes being used in a hydrology study
in the summer of 1963 were of little value because of re-
peated cable failure. Two modifications of the Model 104
probe, described herein, provided satisfactory service.
A new clamp had to be developed for use with the cable.

Davis, J. R.
34255 FREEZE DRYING FOR PREPARING ARIZONA
CHAPARRAL PLANTS FOR ENERGY ANALYSIS. U. S.
Forest Serv. Res. Note RM-106,2 p. 1968.
A99.9 F7632Us

Metabolic value of *Arctostaphylos pungens*
and *Quercus turbinella* for livestock.
Freeze drying yields more crude fat than oven-
drying, and does not adversely affect energy mea-
surements. Therefore freeze drying is preferred for
preparing chaparral fuel samples for chemical analysis.

Hebb, E. A., and McReynolds, R. D.
34256 A SMALL ELECTRIC WATER-LEVEL PROBE.
U. S. Forest Serv. Res. Note SE-87,3 p. Feb.1968.
A99.9 F7623Un

Describes a device for determining water
levels that is simple in design, well-suited to rough field
work, and small enough to fit in a briefcase. Cost is
about \$10.

Mader, D. L., and Lull, H. W.
34257 DEPTH, WEIGHT, AND WATER STORAGE OF
THE FOREST FLOOR IN WHITE PINE [*Pinus strobus*]
STANDS IN MASSACHUSETTS. U. S. Forest Serv. Res.
Paper NE-109,35 p.,map. Ref. 1968. A99.9 F7622Un
Depths and weights of the forest floor in 65
white pine stands in Massachusetts are given by total ac-
cumulations and by layers. Differences in accumulation by
geographic provinces and by soil parent materials are
considered. Simple and multiple correlation and regres-
sion of forest floor and organic matter accumulations on
age, basal area, site index, elevation, and soil drainage
class are presented. Moisture storage and daily drying
rates are evaluated for their possible effects on flood
control.

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Georgia Agricultural Experiment Stations, Athens

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Georgia Game and Fish Commission and U. S. Bureau of Commercial Fisheries, cooperating.

Idaho Agricultural Experiment Station, Moscow

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FINANCING FARMER COOPERATIVES IN HAWAII. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 79,44 p. Oct. 1968. 275.29 H312Ae
- 34260 Rankine, L. B., Larson, A. B., and Green, R. E.
ECONOMIC EVALUATION OF WINTER VEGETABLE PRODUCTION ON MOLOKAI; A FINAL REPORT FOR THE MOLOKAI DEMONSTRATION FARM, WITH AN ANALYSIS OF TRELLIS SYSTEMS FOR TOMATO AND CUCUMBER PRODUCTION. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 80,18 p. Oct. 1968. 275.29 H312Ae
- 34261 Larson, A. B., and Hogg, H. C.
LINEAR PROGRAMMING WITH ITERATIVE MODIFICATION OF THE OBJECTIVE FUNCTION AND THE RESTRAINTS VECTOR. Hawaii. Agr. Exp. Sta. Agr. Econ. Rep. 81,28 p. Oct. 1968. 275.29 H312Ae
Supplement to "An Iterative Linear Programming Procedure for Estimating Patterns of Agricultural Land Use" by same authors in January, 1968, issue of Agricultural Economics Research.

Kansas Agricultural Experiment Station, Manhattan

- 34262 Painter, R. H.
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Chiefly due to biochemistry of field crops.

Louisiana Agricultural Experiment Station, University Station, Baton Rouge

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ANALYTICAL METHODS AND PROCEDURES USED IN THE SOIL TESTING LABORATORY. La. Agr. Exp. Sta. Bull. 632,15 p. Ref. Dec. 1968. 100 L93
Chiefly for soil fertility.

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U. S. D. A., cooperating.

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OCCUPATIONAL AND EDUCATIONAL PLANS OF MALE HIGH SCHOOL SENIORS: A STUDY CONDUCTED IN MISSOURI COUNTRY, TOWN, AND SMALL CITY LOCATIONS, 1964. Mo. Agr. Exp. Sta. Res. Bull. 937,71 p., map. Apr. 1968. 100 M693
- 34268 Welliver, E. D., and Blase, M. G.
AN INVESTIGATION OF THE EFFECTS OF URBAN EXPANSION ON THE TAXATION OF REAL PROPERTY IN WEST CENTRAL MISSOURI. Mo. Agr. Exp. Sta. Res. Bull. 941,56 p., map. Ref. May 1968. 100 M693
Rural-urban fringe.
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INSURANCE COVERAGE OF 200 FAMILIES IN HENRY COUNTY, MO. Mo. Agr. Exp. Sta. Res. Bull. 944,47 p. Aug. 1968. 100 M693

Ohio Agricultural Research and Development Center, Wooster

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MEAT PROCUREMENT AND DISTRIBUTION BY OHIO GROCERY CHAINS AND AFFILIATED WHOLESALE-RETAILERS. Ohio. Agr. Res. Develop. Center. Res. Bull. 1014,37 p. Oct. 1968. 100 Oh3S
- 34271 Ohio. Agricultural Research and Development Center.
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ADJUSTING FEDERAL MILK ORDER MARKET AREAS; WITH SPECIAL REFERENCE TO MARKETS IN AND NEAR OHIO. Ohio Agr. Res. Develop. Center. Res. Bull. 1020,34 p., map. Nov. 1968. 100 Oh3S
- 34273 Ohio. Agricultural Research and Development Center.
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RECENT PROGRESS IN GENETIC IMPROVEMENT OF TURKEYS. Ohio. Agr. Res. Develop. Center. Res. Sum. 33:1-4. Dec. 1968. 100 Oh3Rs

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Reducing number used in breeding.

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34278 Nestor, K. E.
RELATIVE CONTRIBUTION OF MALES AND
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Ref. Dec.1968. 100 Oh3Rs
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34284 Touchburn, S. P., and Bacon, W. L.
THE EFFECTS OF TEMPERATURE, PRO-
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Center. Res. Sum. 33:60-62. Dec.1968. 100 Oh3Rs
Airsacculitis in turkeys.

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Y. S.
THE EFFECTS OF ANTIBIOTIC COMBINA-
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Oklahoma Agricultural Experiment Station, Stillwater

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Not available free from issuing agency. Photo-
copies may be ordered from the National Agricultural
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RELATION OF ENVIRONMENT AND NUTRI-
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Texas Agricultural Experiment Station, College Station

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Arachnida, Myriapoda, etc.

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- 37925 Hyland, K. E., and Fain, A. A NEW HYPOPIAL NYMPH FROM THE HAIR FOLLICLES OF THE EASTERN CHIPMUNK, TAMIAS STIGMATICUS (ACARINA: GLYCYPHAGIDAE). Kans. Entomol. Soc. J. 41(4):429-434. Oct. 1968. 420 K13
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- 37927 Kolebnyova, M. NEOTROMBICULA (NEOTROMBICULA) RHINOLOPHI: A NEW SPECIES PARASITIC ON BATS IN BULGARIA (ACARINA: TROMBICULIDAE). Bulg. Akad. Nauk Dokl. 21(4):383-386. 1968. 512 862
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- 37928 Krantz, G. W. THE MITES OF QUINTANA ROO. I. A NEW SPECIES OF EUTRACHYTES [E. MAYA] FROM THE YUCATAN PENINSULA, WITH OBSERVATIONS ON THE CLASSIFICATION OF THE GENUS. Entomol. Soc. Amer. Ann. 62(1):62-70, map. Ref. Jan. 1969. 420 K612
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Aceria mangiferae.
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- 37951 Khan, N. R., and Musgrave, A. J. SOME ANATOMICAL DIFFERENCES OF POSSIBLE TAXONOMIC VALUE IN THE FEMALE REPRODUCTIVE ORGANS OF SITOPHILUS (CURCULIONIDAE: COLEOPTERA). Can. Entomol. 100(11):1226-1228. Nov. 1968. 421 C16
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- 37954 Landell, N. E. PEDICULUS APIS AND BLAPS MORTISAGA. (Sw) Sveriges Natur 59(3):116-168, 410 Sv2
Includes descriptions of other Swedish Coleoptera.
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- 37958 Pageix, J. P. ON THE CETONIDAE OF THE HOLLOW OAKS AT FONTAINEBLEAU. (Fr) Entomologiste [Paris] 24(2):33-36, Apr. 1968. 421 En814
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- 37960 Peckham, D. J. A SEROLOGICAL COMPARISON OF PISSEODES STROBI AND P. APPROXIMATUS (COLEOPTERA: CURCULIONIDAE). Can. Entomol. 101(1):78-90. Ref. Jan. 1969. 421 C16
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- 37963 Roberts, R. J. AN INTRODUCED PASTURE BEETLE, PLECTRUS ALIENA CHAPIN (SCARABAEIDAE: MELOLONTHINAE). Aust. Entomol. Soc. J. 7(1):15-20. Ref. June 1968. 420 En823
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- 37966 Smith, S. G., and Sugden, B. A. HOST TREES AND BREEDING SITES OF NATIVE NORTH AMERICAN PISSEODES BARK WEEVILS, WITH A NOTE ON SYNONYMY. Entomol. Soc. Amer. Ann. 62(1):146-148. Jan. 1969. 420 En82
- 37967 Tiberghien, G. THIRD NOTE CONCERNING SOME LOCAL OR INTERESTING COLEOPTERA FROM THE PYRENEAN CHAIN AND ADJACENT REGIONS. (Fr) Entomologiste [Paris] 24(2):50-54. Apr. 1968. 421 En814
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- 37969 Triplehorn, C. A. A SYNOPSIS OF THE GENUS TALANUS JACQUELIN DU VAL IN AMERICA NORTH OF MEXICO, WITH DESCRIPTIONS OF TWO NEW SPECIES. Coleopt. Bull. 22(2):33-39, June 1968. 421 C674
Talanus mecoscells n. sp. and T. spilmann n. sp.
- 37970 Vaurie, P. REVIEW OF SOUTH AMERICAN GENUS BELOPORUS SCHOENHEIMER (COLEOPTERA, CURCULIONIDAE, RHYNCOPHORINAE). Coleopt. Bull. 22(2):39-44, June 1968. 421 C674
- 37971 Villiers, A. ON TWO CERAMBYCIDAE FROM NORTH AFRICA. (Fr) Entomologiste [Paris] 24(2):31-33, Apr. 1968. 421 En814
Symplezoecra russica algerica and Leptodesia brevipennis.
- 37972 Wood, S. L. A KEY TO THE SPECIES OF THE COMMONER LECYTHID COLEOPTERA: SCOLYTIDAE OF NORTH AND CENTRAL AMERICA. Great Basin Natur. 28(2)88-110, map. June 29, 1968. 410 G79
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Taxonomic and Geographic Entomology Diptera

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- 37978 Chhabra, M. D., and Chandler, S. ON A SPECIES OF MOPOTENA (DIPTERA, HIPPOBOSCIDAE, MELAPHAGINAE) FROM INDIAN BOTTED DEER AND HOG DEER. Indian Vet. J. 46(1):38-41. Jan. 1969. 418 In2
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- 37981 Depner, K. R. DISTRIBUTION OF THE FACE FLY, MURCA AUTUMNALIS (DIPTERA: MUSCIDAE), IN WESTERN CANADA AND THE RELATION BETWEEN ITS ENVIRONMENT AND POPULATION DENSITY. Can. Entomol. 101(1):97-100, map. Jan. 1969. 421 C16
- 37982 Drew, R. A. L. TWO NEW SPECIES OF DACTINAE (DIPTERA: TYPETIDAE) FROM NEW BRITAIN. Aust. Entomol. Soc. J. 7(1):21-24. June 1968. 420 En823
Asiadacus triangularis n. sp. and A. niger n. sp.
- 37983 Drew, R. A. L. TWO NEW SPECIES OF DACTINAE (DIPTERA: TYPETIDAE) FROM NEW GUINEA. Aust. Entomol. Soc. J. 7(1):77-79. June 1968. 420 En823
Strumeta brevistriata n. sp. and S. nigella n. sp.
- 37984 Field, G. STUDIES OF BLACK FLIES OF PARAMA. III. TWO NEW SPECIES OF RHUMIUM OF THE SUBGENUS HEMICETHA. Entomol. Soc. Amer. Ann. 62(1):157-163. Jan. 1969. 420 En82
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Includes Taxidomyia n. g.

37986 Great Britain. Ministry of Agriculture, Fisheries and Food. NARCISSUS FLIES [MERODON EQUESTRIIS]. Great Brit. Min. Agr. Fish. Food. Adv. Leaflet 183, rev., 5 p. May 1968. 10 G79La

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English summary.

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New spp. in Lonchaea.

37991 Nayar, J. L. THE MALE GENITALIA OF SOME CRIORHINA MEIGEN SPECIES FROM NORTH AMERICA (DIPTERA: SYRPHIDAE). N. Y. Entomol. Soc. J. 76(4):297-302. Dec. 1968. 420 N48J

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37993 Payne, R. M. MORE RECORDS OF BRACHYOPA (DIPTERA: SYRPHIDAE). Entomol. Rec. J. Variation 80(11):296. Nov. 1968. 420 E89

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Notes on their types.

37995 Reinhard, H. J. A REVIEW OF THE GENUS MACROMYIA (TACHINIDAE: DIPTERA). Can. Entomol. 100(12):1280-1287. Dec. 1968. 421 C16
Includes n. spp.

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37998 Richards, O. W. SPHAEROCERID FLIES ASSOCIATING WITH DORYLINE ANTS, COLLECTED BY DR. D. H. KISTNER. Roy. Entomol. Soc. London. Trans. 120(7):183-198. Nov. 22, 1968. 420 L84
Includes n. spp. in Safaria and Leptocera.

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38001 Theowald, B. THE TIPULA EXCISA GROUP IN THE PYRENEES (DIPTERA). (Ge) Beaufortia 15(207):191-194. May 17, 1968. 410 N38
English summary.
Tipula montana montana, and T. cinerea pyrenaica n. sp.

38002 Wirth, W. W., and Blanton, F. S. A REVISION OF THE NEOTROPICAL BITING MIDGES OF THE HYLAS GROUP OF CULICOIDES (DIPTERA, CERATOPOGONIDAE). Fla. Entomol. 51(4):201-215. Ref. Dec. 1968. 420 F662
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Includes n. spp. in Typosilopa.

Taxonomic and Geographic Entomology Hemiptera (Heteroptera and Homoptera)

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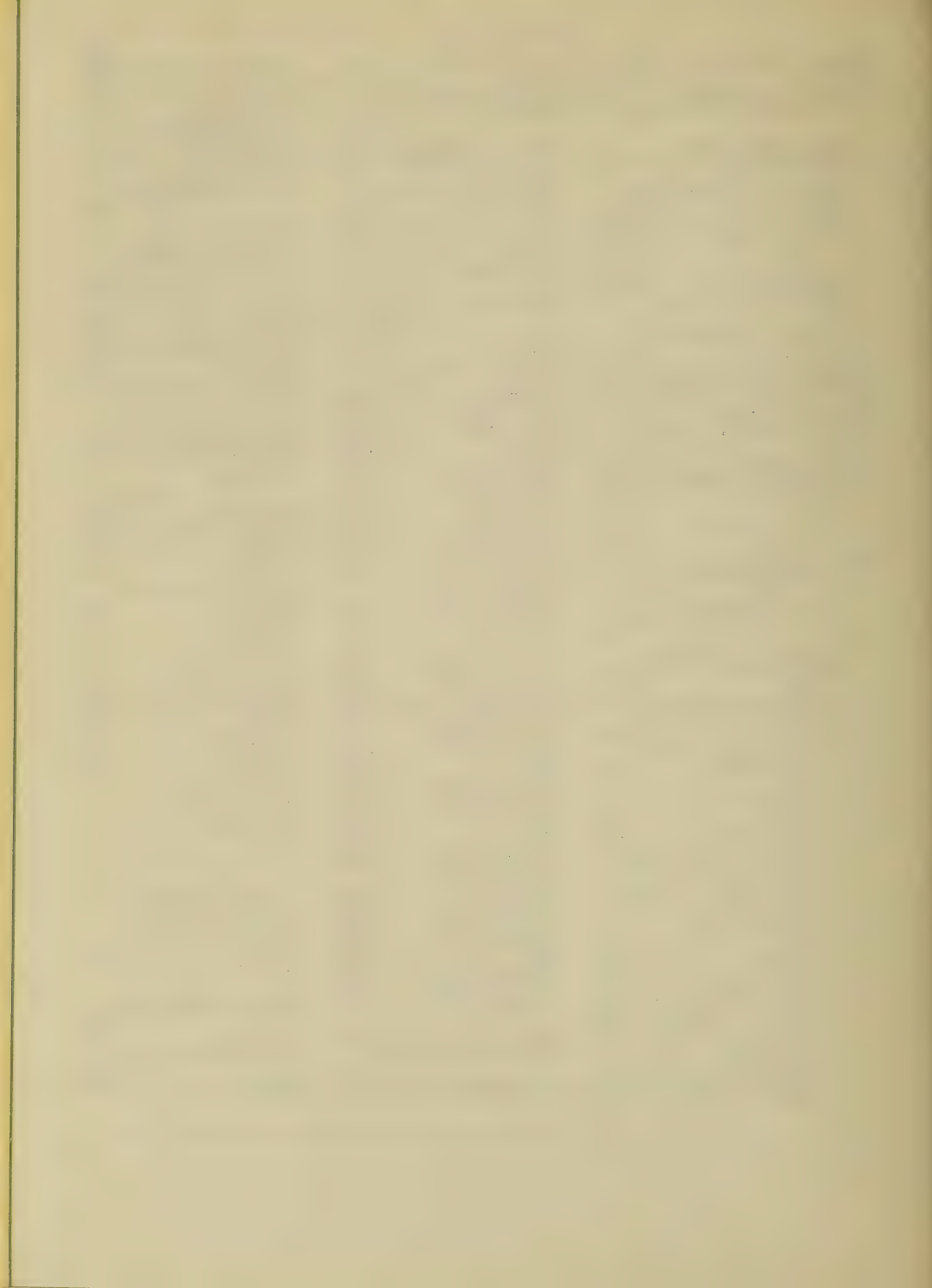
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Agricultural Economic Reports

- 41154 Fuller, T. E.
EMPLOYMENT IN APPALACHIA: TRENDS
AND PROSPECTS. U. S. D. A. Agr. Econ. Rep. 134,54 p.
June 1968. A281.9 Ag8A
Bibliography, p.41.
Summary, p.IV-V.

- 41155 Frey, T. H., Krause, O. E., and Dickason, C.
MAJOR USES OF LAND AND WATER IN THE
U.S.; WITH SPECIAL REFERENCE TO AGRICULTURE,
1964. U. S. D. A. Agr. Econ. Rep. 149,75 p.,map. Ref.
Nov. 1968. A281.9 Ag8A

This report continues the data series on major uses of land and water in the United States, with special reference to agriculture, published at 5-year intervals by the U.S. Department of Agriculture. Acreage data are obtained from many sources and articulated to form a summary account of the extent and distribution of land in each sub-category and in each major category of land use (cropland, pasture and range, forestland, and urban and other special uses) by State and regions as well as U.S. totals. Acreages irrigated and dry-farmed, acreages

drained, and other information on water-use practices related to agriculture are also shown by State region. In 1964, nearly three-fifths of the land area of the U.S. was used to produce crops and livestock, a fifth was ungrazed forest land, 8 percent was in special uses (of which a third is in urban and transportation uses and two-thirds in generally extensive public areas such as parks) and the remainder—12 percent—in desert and other land of limited surface use. Agricultural irrigation on 38 million acres in 1965 accounted for 41 percent of the nation's total water withdrawal from stream or ground sources.

Farmers' Bulletins

- 41156 U. S. D. A. Agricultural Research Service.
Animal Husbandry Research Division.
SWINE PRODUCTION. U. S. D. A. Farmers' Bull. 2166, slightly rev., 30 p. Feb. 1969. 1 Ag84F
- 41157 U. S. D. A. Agricultural Research Service.
Crops Research Division.
GROWING PEACHES EAST OF THE ROCKY MOUNTAINS. U. S. D. A. Farmers' Bull. 2205, slightly rev., 24 p., map. Dec. 1968. 1 Ag84F
- U. S. D. A. Agricultural Research Service, Entomology Research Division, cooperating.

Foreign Agricultural Economic Reports

- 41158 Warren, C. J.
AGRICULTURAL DEVELOPMENT AND EXPANSION IN THE NILE BASIN: PROGRAMS, PRODUCTION AND IMPLICATIONS FOR U.S. AGRICULTURE. U. S. D. A. Foreign Agr. Econ. Rep. 48,114 p.,map. Ref. Oct. 1968. A281.9 Ag8F

This report considered the increase in farm production that might be expected during the next decade in the Nile Basin. The implications of increased farm production are appraised both from the standpoint of their probable impact on local economies and the international market for farm products. Special attention is given to the affect development projects will have on the production and trade of products that compete with U.S. farm exports.

Cotton will likely continue to be the most important crop within the Nile Basin for some years to come. Indications are that a large bread grain deficit will still exist in the UAR by the time the full impact of the High Dam is realized. A realization of anticipated expansion in cotton production in the Nile Basin will have a decided impact on the world's cotton situation within the next decade. While extra long staple cotton from the area competes indirectly with U.S. cotton on the world market, short staple varieties compete directly with U.S. foreign sales. Sudanese shipments of surplus feed grains will compete with U.S. exports to Western Europe. Potential exports of oilseeds, citrus, and vegetables could also be a source of increased competition for U.S. sales abroad of these commodities.

Home and Garden Bulletins

- 41159 U. S. D. A. Agricultural Research Service.
Crops Research Division. Forage and Range Research Branch. Grass and Turf Investigations.
BETTER LAWN: ESTABLISHMENT, MAINTENANCE, RENOVATION, LAWN PROBLEMS, GRASSES. U. S. D. A. Home Gard. Bull. 51, slightly rev., 32 p. Nov. 1968. 1 Ag84Hg
- 41160 U. S. D. A. Agricultural Research Service.
Entomology Research Division.
CONTROLLING HOUSEHOLD PESTS. U. S. D. A. Home Gard. Bull. 96, slightly rev., 31 p. Feb. 1969. 1 Ag84Hg
- U. S. D. A. Agricultural Research Service, Market Quality Research Division; U. S. D. A. Forest Service; and, U. S. Fish and Wildlife Service, cooperating. Chiefly chemical.

Marketing Research Reports

- 41161 Hanlon, P. J.
FOOD DISTRIBUTION FACILITIES IN DAYTON, OHIO. U. S. D. A. Marketing Res. Rep. 835, 43 p., map. Jan. 1969. 1 Ag84Mr
Summary, p.1.

Miscellaneous Publications

- 41162 U. S. D. A. Agricultural Research Service. POTATO STORAGE 25,000 CWT. PALLET BOX; COOPERATIVE FARM BUILDING PLAN NO. 6038. U. S. D. A. Misc. Publ. 1108, 2 p. Feb. 1969. 1 Ag84M
- 41163 U. S. D. A. Agricultural Research Service. POULTRY HOUSE, FLOOR MANAGEMENT; COOPERATIVE FARM BUILDING PLAN NO. 6000. U. S. D. A. Misc. Publ. 1120, 2 p. Feb. 1969. 1 Ag84M
- 41164 U. S. D. A. Agricultural Research Service. FREE-STALL SYSTEM FOR DAIRY COWS; COOPERATIVE FARM BUILDING PLAN NO. 6035. U. S. D. A. Misc. Publ. 1127, 2 p. Mar. 1969. 1 Ag84M
- 41165 U. S. D. A. Agricultural Research Service. FREE-STALL BARN FOR 50 COWS (HOUSING ONLY); COOPERATIVE FARM BUILDING PLAN NO. 6039. U. S. D. A. Misc. Publ. 1128, 2 p. Mar. 1969. 1 Ag84M
- 41166 U. S. D. A. Agricultural Research Service. FREE-STALL BARN FOR 62 COWS (ARRANGEMENT FOR DAIRY SYSTEM); COOPERATIVE FARM BUILDING PLAN NO. 6034. U. S. D. A. Misc. Publ. 1130, 2 p. Mar. 1969. 1 Ag84M

Program Aid

- 41167 U. S. D. A. Federal Extension Service. HELPING OTHERS CATCH UP. U. S. D. A. PA-903, 15 p. Feb. 1969. 1 Ag84Pro
Various Extension programs for the disadvantaged.

Technical Bulletins

- 41168 Peters, E. J., and Stritzke, J. F. RESPONSE OF IRONWEED [VERNONIA BALDWINI] AND BUCKBRUSH [SYMPHORICARPOS ORBICULATUS] TO HERBICIDES AND TO HERBICIDES IN COMBINATIONS WITH MOWING, NITROGEN FERTILIZER, AND SURFACTANTS. U. S. D. A. Tech. Bull. 1400, 16 p. Ref. Feb. 1969. 1 Ag84Te
Pasture weed.
Summary, p. 15.

Unnumbered Publications

- 41169 Byerly, T. C. RESEARCH RECOMMENDATIONS OF THE WORLD FOOD PROBLEM: REMARKS BEFORE THE INTERNATIONAL AGRICULTURAL DEVELOPMENT SERVICE SEMINAR, MARCH 28, 1968, WASHINGTON, D.C. U. S. D. A., 1968. 11 p. A31.3 B99
Food research; includes population considerations.
- 41170 Byerly, T. C. SHALL WE EAT STEAK? TALK AT THE NORTH EAST REGIONAL MEETING OF THE NATIONAL ASSOCIATION OF FARM BROADCASTERS, COLLEGE PARK, MARYLAND, MARCH 30, 1968. U. S. D. A., 1968. 11 p. A31.3 B99
Beef cattle and substitute beef outlook.
- 41171 Joint Ad Hoc Task Force on Federal-State Experiment Station Relations in Agricultural Research. FEDERAL-STATE EXPERIMENT STATION RELATIONS IN AGRICULTURAL RESEARCH. Washington, 1968. 16 p. S541.A5
Sponsored by U. S. D. A.; and, National Association of State Universities and Land-Grant Colleges.
- 41172 Joint Task Force of the U. S. Department of Agriculture and the State Universities and Land Grant Colleges. A NATIONAL PROGRAM OF RESEARCH FOR FARM LABOR AND MECHANIZATION. Washington, U. S. Department of Agriculture, 1968. 63 p. aHD1525.J6
Not available free from issuing agency. Photocopies may be ordered from the National Agricultural Library.
- 41173 U.S.D.A. PROGRAM STRUCTURE DICTIONARY; PLANNING PROGRAMMING, BUDGETING SYSTEM. Washington, 1968. loose-leaf. aS21.A993 1968.

- 41174 U. S. D. A. Office of the Secretary. AGRICULTURE IN TRANSITION; REPORT OF THE SECRETARY OF AGRICULTURE, 1968. Washington, 1969. 147 p. 1 Ag84A

- 41175 U. S. Federal Committee on Pest Control. CATALOG OF FEDERAL PESTICIDE MONITORING ACTIVITIES IN EFFECT JULY 1967, BY P. F. SAND, C. N. BEBEE, G. A. BILLINGSLEY, R. K. DAWSON, R. HEALTH, P. L. TAYLOR, A. R. YOBBS, AND W. R. MATTERS-DORFF. Washington, 1968. 131 p. SB959.A5

"Bibliography: Methods of Pesticide Analysis Employed by Federal Agencies," p. 81-98.

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- 41176 Frederiksen, R. A., and others. A NEW RACE OF SPHACELOTHECA REILIANA IN SOUTH TEXAS. Plant Dis. Rep. 53(3):171-172. Mar. 1969. 1 P969P
D. T. Rosenow, L. Reyes, and L. K. Edmunds, joint authors.
Existence of a race of *Sphacelotheca reiliana* that is pathogenic to heretofore resistant *feritita* sorghum types was demonstrated by growing known genotypes on naturally infested soil of a commercial field. Natural occurrence of the new race has not been found outside Bee County, Texas. The new race is, however, considered to be potentially significant to grain sorghum production. Widespread distribution of the race would defeat popular sources of resistance to head smut of sorghum.
- 41177 Giannotti, J. TRANSMISSION OF CLOVER PHYLLODY BY A NEW LEAFHOPPER VECTOR, EUSCELIDUS VARIEGATUS. Plant Dis. Rep. 53(3):173. Ref. Mar. 1969. 1.9 P699P
- 41178 Gooding, G. V., and Lucas, G. B. TOBACCO STALK AND ROOT DESTRUCTION WITH HERBICIDES AND THEIR EFFECT ON TOBACCO MOSAIC VIRUS. Plant Dis. Rep. 53(3):174-178. Mar. 1969. 1.9 P699P
Tobacco stalk and root decay was accelerated by spraying stalks with certain herbicides in greenhouse and field tests. Dead roots contained about 1/4 as much tobacco mosaic virus (TMV) as living roots, whether killed by herbicides or by other factors. Indications are that herbicides may constitute a practical way of killing stalk and root tissue, thereby decreasing inoculum carry-over of certain tobacco pathogens in crop debris.
- 41179 Hagedorn, D. J., Wade, E. K., and Weis, G. CHEMICAL CONTROL OF BEAN BACTERIAL DISEASES IN WISCONSIN. Plant Dis. Rep. 53(3):176-181. Mar. 1969. 1.9 P699P
Chiefly *Pseudomonas phaseolicola* and *P. syringae*.
Overhead irrigated field plots on the central Wisconsin sands were utilized to study the comparative effectiveness of various copper-containing foliage spray materials for control of bean halo blight and bacterial brown spot. Several spray schedules using cupric hydroxide were also studied. Results were somewhat inconsistent, but they indicated beneficial effects of several spray materials, especially cupric hydroxide and basic copper sulfate. The most effective spray schedule was a weekly application of these materials beginning at the first trifoliate leaf stage.
- 41180 Scheifele, G. L., and Nelson, R. R. THE OCCURRENCE OF PHYLLLOSTICTA LEAF SPOT OF CORN IN PENNSYLVANIA. Plant Dis. Rep. 53(3):186-189. Mar. 1969. 1.9 P699P
During early June of 1968, severe isolated epidemics of an unusual seedling blight of corn occurred in central Pennsylvania. The causal agent of the disease was determined to be *Phyllosticta zeae* Stout.
Evaluation of 37 corn inbreds for their response to *P. zeae* under greenhouse conditions demonstrated a wide range of resistance and susceptibility. Resistance of such inbreds as WF9, A495, Pa 32, and Pa 887 p apparently was lost upon their conversion to the male sterile or the restorer inbred.

- 41181 Delgado-Sanchez, S., Fucikovsky, L., and Cadena-Hinojosa, M.
THE OCCURRENCE OF SOME PREVIOUSLY UNREPORTED DISEASES OF POTATOES IN MEXICO. Plant Dis. Rep. 53(3):189-190. Mar. 1969. 1.9 P69P
Potato diseases were observed and identified in six geographical areas in Mexico in a 2-year period. The implications of the presence or absence of the different diseases in the increased potato production in Mexico is discussed.
- 41182 Miller, P. M.
INJURY TO HETERODERA TABACUM BY HIGH SOIL TEMPERATURES. Plant Dis. Rep. 53(3):191-193. Mar. 1969. 1.9 P69P
Exposure for 6 days to soil temperatures of 32 and 37°C killed emerging larvae of *Heterodera tabacum*, preventing invasion of eggplant roots; but unhatched eggs were not killed. Exposure for 24 hours to 42 or 47°C killed unhatched eggs. Root invasion was greatly reduced if the soil was at 32 or 34°C for 3 days before transference to 22°C for further germination.
- 41183 Singh, R. P.
NATURAL INFECTION OF FENUGREEK BY TWO LEGUME VIRUSES. Plant Dis. Rep. 53(3):194-198. Ref. Mar. 1969. 1.9 P69P
In 1968, several plants of fenugreek (*Trigonella foenum-graecum*) developed two types of symptoms in New Brunswick. One type was characterized by yellow vein mosaic followed by wilting of the plants, and the other by a green mosaic consisting of dark green areas of irregular shapes and sizes on the leaves. Both types of symptoms were incited by viruses. On the basis of symptomatology, host range, physical properties, presence of intracellular inclusions, and cross protection tests, one is a strain of bean yellow mosaic virus while the second is similar to pea mosaic virus.
- 41184 El-Kandelgy, S. M., and Wilcoxson, R. D.
EFFECT OF RED CLOVER VEIN MOSAIC VIRUS ON DRY WEIGHT OF TISSUES OF GOMPHRENA GLOBOSA. Plant Dis. Rep. 53(3):198-199. Mar. 1969. 1.9 P69P
- 41185 Hearn, C. J., and Childs, J. F. L.
A SYSTEMIC FUNGICIDE EFFECTIVE AGAINST SOUR ORANGE SCAB DISEASE. Plant Dis. Rep. 53(3):203-205. Mar. 1969. 1.9 P69P
Control of sour orange scab (*Sphaceloma fawcettii* Jenkins) of citrus is often difficult and requires several spray applications. On "King" mandarin (*Citrus reticulata* hybrid), a very susceptible variety, benomyl (Fungicide 1991) reduced scab pustules by 97% on the second flush of growth occurring 90 days after application. On the third flush, 140 days later, pustules were reduced by 75%.
- 41186 Sowell, G., and Demski, J. W.
SUSCEPTIBILITY OF WATERMELON CULTIVARS TO WATERMELON MOSAIC VIRUS. Plant Dis. Rep. 53(3):208-209. Mar. 1969. 1.9 P69P
All watermelon cultivars tested (59) were susceptible to watermelon mosaic virus-2. WMV-2 was recovered from 40-100% of inoculated plants of each cultivar in at least one of three tests.
- 41187 Pratt, M. J.
CLOVER YELLOW VEIN VIRUS IN NORTH AMERICA. Plant Dis. Rep. 53(3):210-212. Ref. Mar. 1969. 1.9 P69P
Clover yellow vein virus (CYVV) was isolated from white clover in eastern and western Canada. The virus is similar to bean yellow mosaic virus (BYMV) in size and some host reactions but it is serologically distinct and it differs in its pattern of inclusion body formation. The possibility that CYVV has already been isolated in the United States and named BYMV is discussed.
- 41188 Matthews, F. D.
UROMYCES COSTARICENSIS: A NEW REPORT FOR THE CONTINENTAL UNITED STATES. Plant Dis. Rep. 53(3):213. Mar. 1969. 1.9 P69P
Lasiacis divaricata.
- 41189 Futrell, M. C., and Kilgore, M.
POOR STANDS OF CORN AND REDUCTION OF ROOT GROWTH CAUSED BY FUSARIUM MONILIFORME. Plant Dis. Rep. 53(3):213-215. Mar. 1969. 1.9 P69P
Fusarium moniliforme-infected corn seedlings were collected from fields with poor stands in Mississippi. When corn seedlings were grown in axenic culture with *F. moniliforme* root growth was reduced. The fungus reduced the length of roots, and fewer branch roots developed on infected plants. After the roots failed to develop properly, chlorosis, necrosis, and blighting of the leaf blade occurred. In some cases the leaf blades died before they came out of the coleoptile sheath. A heat stable toxin was present that inhibited the development of corn roots in the same way as the live fungus. These studies indicated that a seedling blight of corn was caused by *F. moniliforme* and the mode of action of the fungus was probably by a toxin which inhibits root growth.
- 41190 Edmonds, R. L., Driver, C. H., and Russell, K. W.
BORAX AND CONTROL OF STUMP INFECTION BY FOMES ANNOSUS IN WESTERN HEMLOCK. Plant Dis. Rep. 53(3):216-219, map. Mar. 1969. 1.9 P69P
Infection by *Fomes annosus* (Fr.) Cke. in pine stumps after thinning in southeastern United States has been controlled on an operational basis by dry borax stump treatment. Tests in which dry borax was used to treat stumps of western hemlock (*Tsuga heterophylla*) in western Washington yielded results ranging from 5 to 56% infection when applied throughout the year. Varying degrees of protection were obtained from stump treatments with solutions of borax-glycerol-alcohol (0-10%) and borax-water (10%). Protection appeared to be related to the degree of borax penetration. Factors associated with penetration of borax and the need for further testing are discussed.
- 41191 Aulakh, K. S., Malhotra, S., and Grover, R. K.
PHOMA DESTRUCTIVA, ITS VARIABILITY, HOST RANGE AND VARIETAL REACTION OF TOMATOES. Plant Dis. Rep. 53(3):219-222. Mar. 1969. 1.9 P69P
Isolates of *Phoma destructiva* were grouped into three culturally distinct variants. Isolates P₁ and P₂ sporulated within 5 days, and isolate P₃ after 20 days incubation. When 41 tomato varieties were tested against the three isolates of *P. destructiva*, none was resistant to all isolates. The isolates varied in their virulence on leaves and fruits of different varieties. Only three tomato varieties were susceptible to all three isolates of the pathogen. On the basis of their cultural and pathological behavior, the isolates are characterized as distinct biological forms of *P. destructiva*. Isolates P₁ parasitized young fruits of *Datura alba*, *Withania somnifera*, *Capsicum frutescens*, and *Solanum melongena* (also the leaves) under artificial conditions.
- 41192 Reyes, A. A.
DETECTION OF PLASMIDIOPHORA BRASSICAE RACES 2 AND 6 IN ONTARIO. Plant Dis. Rep. 53(3):223-225. Mar. 1969. 1.9 P69P
Two distinct races of *Plasmidiophora brassicae* Wor. were detected among six isolates from various cruciferous crops collected in Ontario by the reaction of standard differential varieties of cabbage and turnip. Of the six isolates, one from turnip belonged to race 2, and four from cabbage and cauliflower to race 6. The remaining isolate from cabbage-cauliflower was undetermined because of its inconsistent pathogenicity.
- 41193 Manning, W. J., and Crossan, D. F.
FIELD AND GREENHOUSE STUDIES ON THE EFFECTS OF PLANT AMENDMENTS ON RHIZOCTONIA [SOLANI] HYPOCOTYL ROT OF SNAPBEAN. Plant Dis. Rep. 53(3):227-231. Ref. Mar. 1969. 1.9 P69P
The effects of green and mature plant amendments on *Rhizoctonia hypocotyl* rot of snapbean were assessed under field and greenhouse conditions. Under both conditions, corn amendments significantly decreased hypocotyl rot. This effect persisted for almost a year under field conditions, but lasted less than 70 days in the greenhouse. Corn root growth alone also decreased hypocotyl rot under greenhouse conditions, but not so markedly as decreases obtained with whole plant amendments. Other amendments were ineffective in decreasing hypocotyl rot under greenhouse and field conditions.

- 41194 Gough, F. J., and McDaniel, M. E.
ZOYSIA RUST IN TEXAS. Plant Dis. Rep. 53
(3):232. Mar. 1969. 1.9 P69P
Puccinia zoysiae.
- 41195 Bynum, H. H., and Miller, D. R.
A NEW NEEDLE DISEASE OF HARD PINES IN
OREGON AND CALIFORNIA. Plant Dis. Rep. 53(3):232-
234. Mar. 1969. 1.9 P69P
A new needle disease of ponderosa pine, *Pinus*
ponderosa, and knobcone pine, *Pinus attenuata*, has been
found in Oregon and California. It is caused by an undes-
cribed species of the genus *Hypodermella*, and appears to
be capable of causing severe mortality of these tree
species in plantations.
- 41196 Thyr, B. D.
ADDITIONAL SOURCES OF RESISTANCE TO
BACTERIAL CANKER OF TOMATO (CORYNEBACTERI-
UM MICHIGANENSE). Plant Dis. Rep. 53(3):234-237.
Mar. 1969. 1.9 P69P
Several new sources of resistance to bacterial
canker (*Corynebacterium michiganense* (Smith) Jensen)
exist in tomato (*Lycopersicon* sp.). Plants were grown in
the greenhouse, where they were inoculated at the begin-
ning of the three-leaf seedling stage on the wound left by
excising the first true leaf at its point of attachment.
Evaluation for resistance was made 8 weeks after inocu-
lation. The best resistance was found in *L. pimpinellifolium*
and an accession of *L. esculentum* bearing some re-
semblance to *L. pimpinellifolium*. These lines were found
to have resistance comparable to *L. hirsutum* (PI 251305),
recently reported as resistant. Vascular invasion by
the pathogen was as extensive in *L. hirsutum* (PI 251305)
as in the most resistant lines of *L. pimpinellifolium*.
- 41197 Ziller, W. G.
SARCOTROCHILA ALPINA AND LOPHODERM-
MIUM LARICINUM CAUSING LARCH NEEDLE BLIGHT IN
NORTH AMERICA. Plant Dis. Rep. 53(3):237-239. Ref.
Mar. 1969. 1.9 P69P
Needle blight of larch caused by *Sarcotrochila*
alpina (Fuehler) Hoehn. is reported for the first time in
North America. The overall damage was aggravated by
premature needle cast caused by *Lophodermium laricinum*
Duby.
- 41198 Blodgett, E. C.
ANNOUNCEMENT; A PLAN TO PRESERVE
VIRUS-FREE PATENTED CLONES OF DECIDUOUS
FRUITS. Plant Dis. Rep. 53(3):239. Mar. 1969. 1.9 P69P
- 41199 Bourke, P. M. A.
APPLE SCAB, PECAN SCAB, AND THE DURA-
TION OF LEAF WETNESS. Plant Dis. Rep. 53(3):240.
Mar. 1969. 1.9 P69P
- 41200 U. S. D. A. Agricultural Research Service.
Crops Research Division. Cotton and Cordage
Fibers Research Branch.
RESULTS OF 1967 REGIONAL COTTON VARI-
ETY TESTS BY COOPERATING AGRICULTURAL EX-
PERIMENT STATIONS: ALABAMA, ARIZONA, ARKAN-
SAS, CALIFORNIA, GEORGIA, LOUISIANA, MISSISSIPPI,
MISSOURI, NEVADA, NEW MEXICO, NORTH CAROLINA,
OKLAHOMA, SOUTH CAROLINA, TENNESSEE, AND
TEXAS. U. S. Agr. Res. Serv. ARS-34-105,99 p., map.
Feb. 1969. A64.9 R31A
- 41201 McDaniel, B. T., Allaire, F. R., and Dickinson,
F. N.
THE PROBABILITY FOR DETERMINING
WHICH OF TWO BULLS HAS A SUPERIOR GENETIC
MERIT. U. S. Agr. Res. Serv. ARS 44-207,12 p. Dec.
1968. A49.9 R31A
Milk production.
- 41202 U. S. D. A. Agricultural Research Service.
DHIA COW PERFORMANCE INDEX LIST; REG-
ISTERED PROGENY OF DHIA SIREs, SEPTEMBER 1967
THROUGH MAY 1968. U. S. Agr. Res. Serv. ARS 44-209,
708 p. Feb. 1969. A49.9 R31A
- 41203 Anderson, M. E., and others.
ADAPTING THE FLOW-DIVERSION VALVE
AND HOMOCENIZER TO PERMIT AUTOMATED CLEAN-
ING-IN-PLACE OF MILK PROCESSING LINES. U. S.
Agr. Res. Serv. ARS-52(n.s.)31,18 p. Jan. 1969.
A289.9 R31
T. F. Webb, R. T. Marshall, and D. S. Shelley,
joint authors.
Summary, p.3.

COMMODITY CREDIT CORPORATION

- 41204 U. S. D. A. Commodity Credit Corporation.
CHARTS PROVIDING A GRAPHIC SUMMARY
OF OPERATIONS, JUNE 30, 1968. Washington, 1969.
67 p. 1.957 C38
Prepared by U. S. D. A. Agricultural Stabiliza-
tion and Conservation Service, Data Management Division.

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- 41205 Rorex, H. D.
NEW POLICY HELPS FEED NEEDY CHILD-
REN. Agr. Marketing [Washington] 14(1):3. Jan. 1969.
A280.38 Ag8
USDA has announced a new national policy on
judging need and protecting the anonymity of children
given food help at school.
- 41206 Pierce, J.
JAPAN; A POTENTIAL NEW MARKET FOR
HIGH-QUALITY U.S. BEEF. Agr. Marketing [Washing-
ton] 14(1):4-5. Jan. 1969. A280.38 Ag8
Due to expanding consumer demands, U.S.
beef is needed to supplement Japan's domestic produc-
tion.
- 41207 Johnson, E. F.
USDA INSPECTORS CHECK QUALITY OF IM-
PORTED FRUITS. Agr. Marketing [Washington] 14(1):5.
Jan. 1969. A280.38 Ag8
Many fruits imported from South America dur-
ing winter, when domestic supplies are scarce, are in-
spected by C&MS.
- 41208 Neustadt, M. H.
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ARDS. Agr. Marketing [Washington] 14(1):6-7. Jan.
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- 41209 Mootz, C. E.
MEAT IMPORTS MEET STRICT STANDARDS.
Agr. Marketing [Washington] 14(1):10. Jan. 1969.
A280.38 Ag8
Meat and poultry imports must pass rigid
U.S. standards for cleanliness, wholesomeness, and
truthful labeling.
- 41210 Barnes, G. V.
IS YOUR BAG FRUITS AND VEGETABLES?
LET PACA (PERISHABLE AGRICULTURAL COMMODI-
TIES ACT OF 1930) PROTECT YOU. Agr. Marketing
[Washington] 14(2):3. Feb. 1969. A280.38 Ag8
Marketing.
- 41211 Miller, C. B.
WHERE DO THE APPLES COME FROM? Agr.
Marketing [Washington] 14(2):4. Feb. 1969. A280.38 Ag8
Northwest, New England, New York, Appalachia—
Federal-State Market News reports help shippers
and buyers get apples to market all over the country.
- 41212 Philbeck, R. H.
THE MEAT INSPECTOR'S UNSEEN PARTNER.
Agr. Marketing [Washington] 14(2):6. Feb. 1969.
A280.38 Ag8
Back in the lab, C&MS experts give scientific
support to the consumer protection efforts in the field.
- 41213 Simmons, M. A.
PROCESSED MEAT INSPECTORS GO BACK
TO SCHOOL. Agr. Marketing [Washington] 14(2):10. Feb.
1969. A280.38 Ag8
Adding processed food inspection to the Con-
sumer Protection training program, C&MS now does even
more to assure the consumer of clean, wholesome meat.
- 41214 Wendland, J. B.
FLORIDA CELERY ORDER EXPANDED FOR
PROGRESS. Agr. Marketing [Washington] 14(2):11. Feb.
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Individual grower allotments and marketing
holidays are some of the provisions this Federal order
now includes.
- 41215 Somers, R. K.
THE NEW MEAT LAW; WHAT'S BEEN DONE?
Agr. Marketing [Washington] 14(2):14-15. Feb. 1969.
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A look at progress in the first year of the
Federal Wholesome Meat Act.

- 41216 Dunn, F.
THE RAISIN FAMILY TREE. Agr. Marketing
[Washington] 14(3):4-5. Mar. 1969. A280.38 Ag8
Inspection and other policies.
Varieties range from Thompson seedless to the
Black Zante Currant and, serendipity-like, raisins were
discovered by accident!
- 41217 Clower, J. A.
SUPERIOR FEEDER PIGS RECEIVE NEW NO. 1
GRADE. Agr. Marketing [Washington] 14(3):10. Mar.
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- 41218 Grange, G. R.
ADS HIT QUALITY MARK WITH U.S. GRADE
SHIELDS. Agr. Marketing [Washington] 14(3):11. Mar.
1969. A280.38 Ag8
- 41219 Ross, R. H.
BACTERIA ARE NOT ALL BAD. Agr. Market-
ing [Washington] 14(3):14-15. Mar. 1969. A280.38 Ag8
Bacteria help you enjoy such foods as sauer-
kraut, yoghurt, cheese, pickles, and vinegar.

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SYSTEMS RESEARCH IN AGRICULTURE. Agr.
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- 41221 Hutton, E. M.
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- 41222 Pauli, F. W.
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- 41223 Smith, G. R.
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A31.3 Ag893

ECONOMIC RESEARCH SERVICE

- 41224 Irwin, G. D.
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- 41225 Lins, D. A.
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- 41226 Penson, J. B.
THE "WAIT-AND-SEE" INVESTMENT STRAT-
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Credit for investing in farm improvements.
- 41227 Smith, A. G.
WHO OWES THE FARM DEBT? Agr. Finance
Rev. 29:24-33. Feb. 1969. 1.9 Ec78Af
- 41228 Hamlin, E. T., and Eitel, Van E.
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During road construction, soil that is added to a stream by tractors crossing during low flow is temporarily "filtered" out before it travels far. Five-gallon samples were taken at 150, 300, 600, and 1,200 feet downstream from a road crossing, with sodium fluorescein dye used as a tracer. Suspended particle concentration was reduced from 1,055 p.p.m. at 150 feet below the road to 108 p.p.m. at 1,200 feet. The "filtering" action is a combination of settling of larger particles and dilution of sediment-laden water. This filtration is temporary and deposited soil will tend to be flushed downstream during high flows and may cause channel erosion or other damage.
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BUD CHARACTERISTICS OF PONDEROSA PINE RELATED TO POTENTIAL DAMAGE BY THE EUROPEAN PINE SHOOT MOTH [BRYANCONIA BUOLIANA]. U. S. Forest Serv. Res. Note PNW-90,17 p. Sept. 1968. A99.9 F7625U
Bud characteristics of young ponderosa pine in open stands were studied as a possible basis for determining susceptibility or resistance of these stands to the European pine shoot moth. A survey of numbers and sizes of buds on branch apices showed three different bud patterns in eastern Oregon and Washington, and a fourth pattern in the Willamette Valley of Oregon. A study of resin canal development at two plots in northeastern Oregon showed that terminal buds had more and larger longitudinal resin canals than did lateral buds in the same cluster, and that elongation of resin canals occurred more rapidly in terminal buds. In July 1964, resin canal development in ponderosa pine in northeastern Oregon was much more advanced than it was on Scotch pine in the shoot moth-infested Puget Sound area. Bud number and size and probable differences in resin production between terminal and lateral buds should be tested in natural pine stands as indicators of resistance to the European pine shoot moth.
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Acer saccharum and A. nigrum.
Equations are presented for estimating shrinkage and resulting footage losses due to drying hard maple lumber. The equations, based on board shrinkage data taken from a representative lumber sample, are chiefly intended for use with lots of hard maple lumber, such as carloads, truckloads, or kiln loads, but also can be used for estimating the average shrinkage of individual boards.
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National Forests in Oregon and Washington.
Wilderness visitation typically occurs in more highly educated, small family and friendship groups who take about five 2-to 3-day trips per year. About 30 percent (400) belonged to 218 conservation groups. Those who were more wilderness purist in attitude reacted differently to some of the statements—53 on wilderness management and 22 on codes of behavior—suggested in the questionnaire.
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Douglas-fir generally exhibited more rapid juvenile height growth than western white pine and noble and Pacific silver fir on upper-slope clearcuts. Pacific silver fir grew slowest even though most were established prior to logging the overstory, in contrast to other species. Although height growth of Pacific silver fir increased dramatically following logging of overstory, it was exceeded by greater height growth of less shade-tolerant species.
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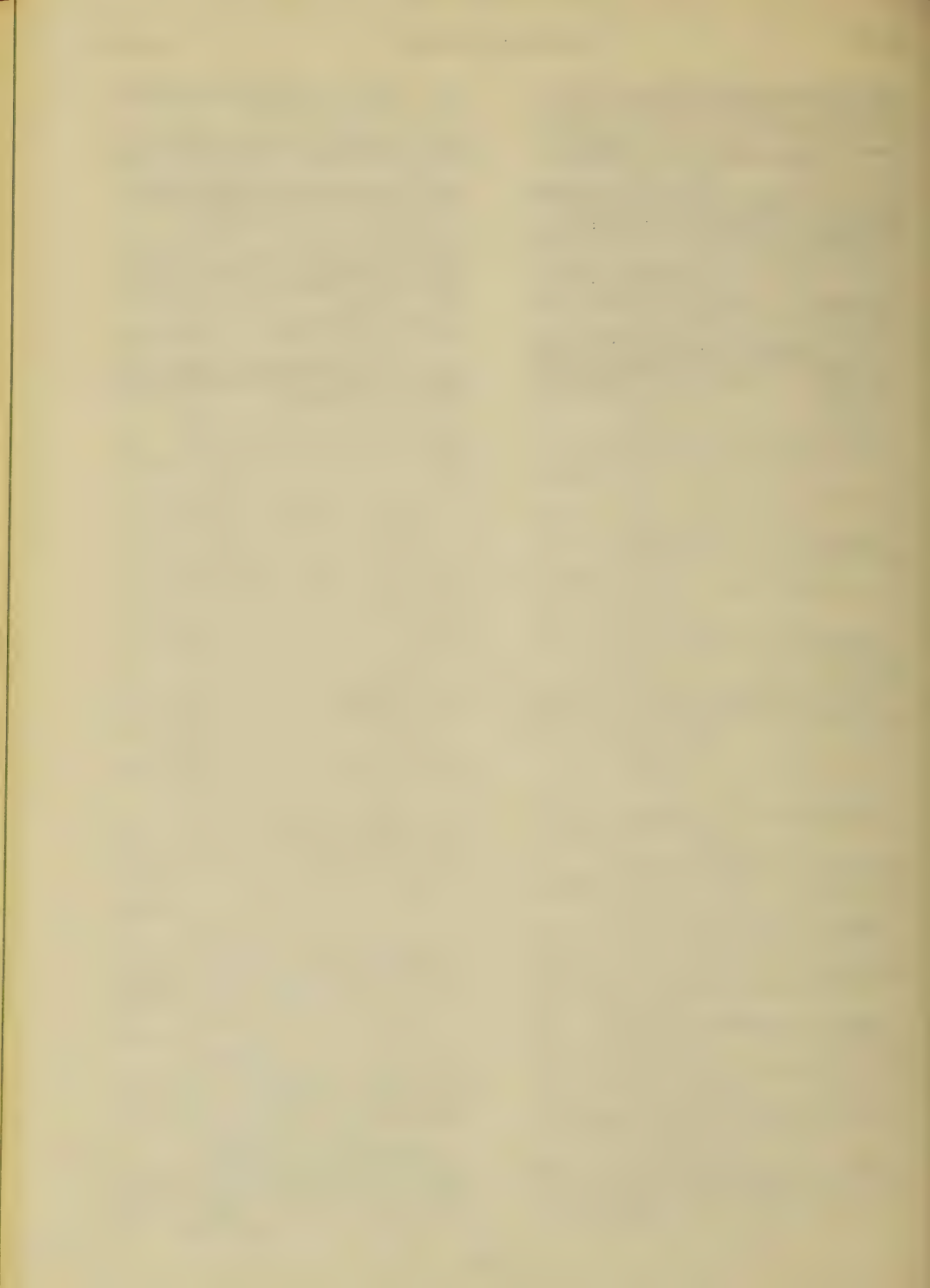
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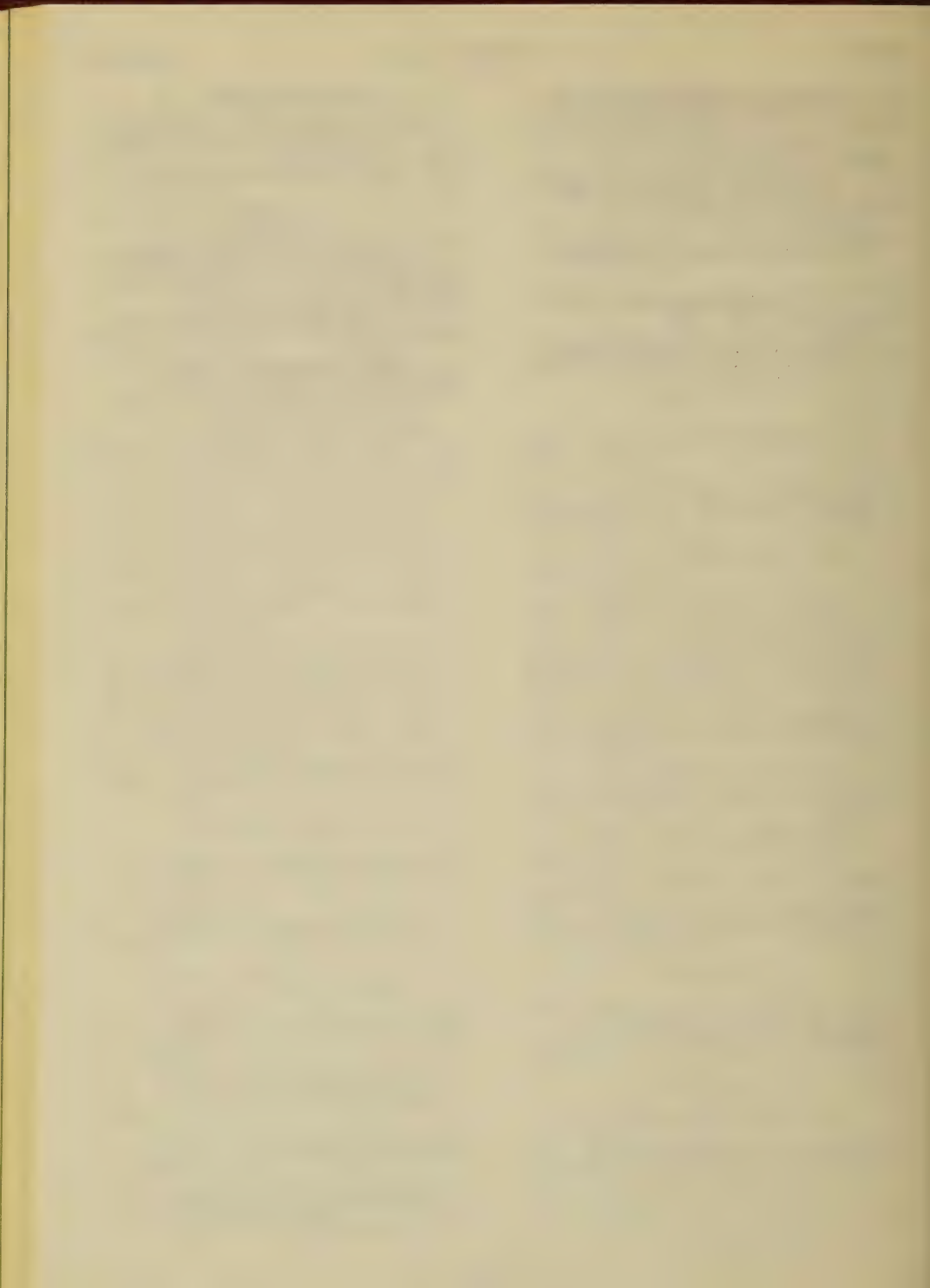
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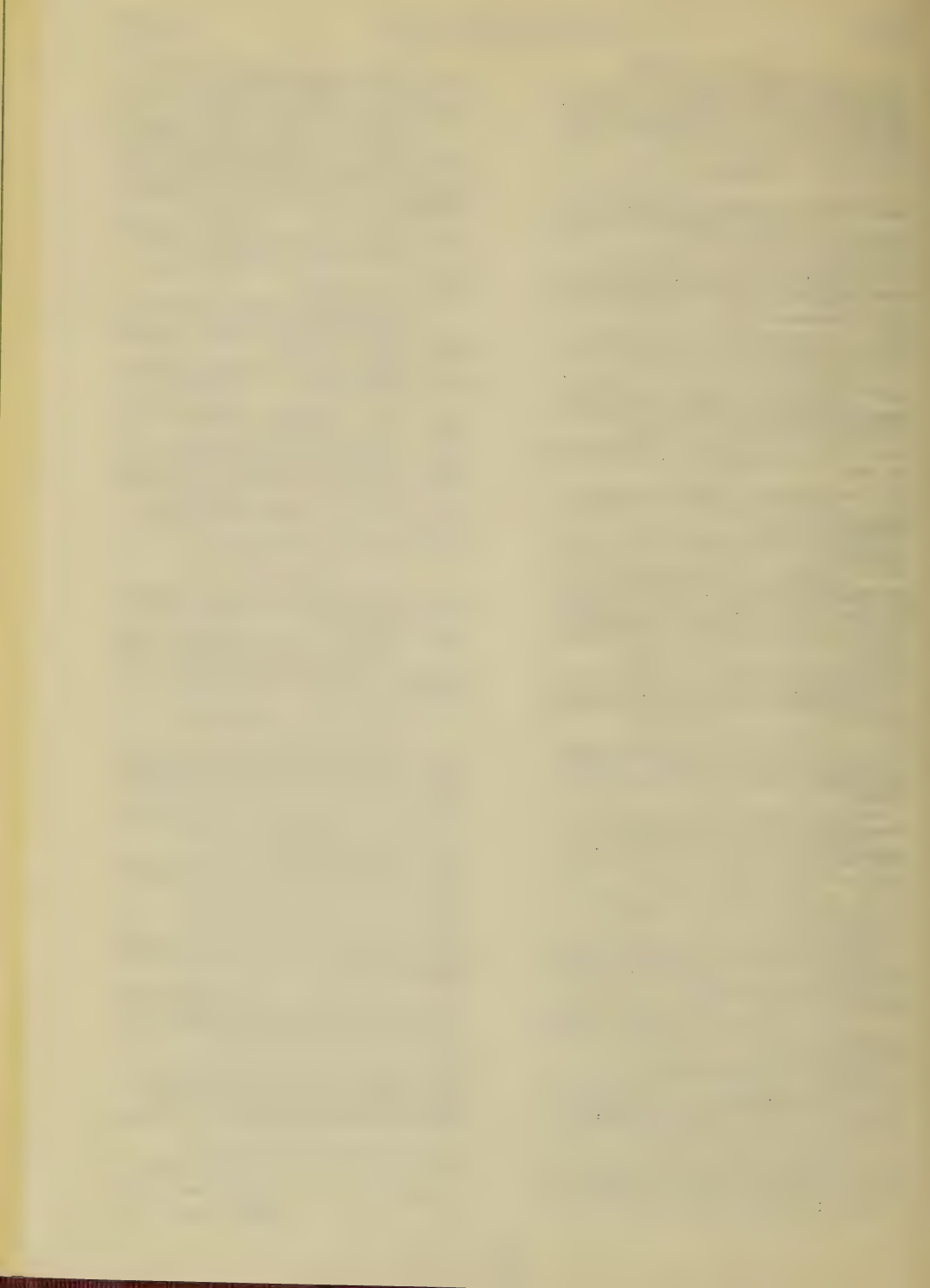
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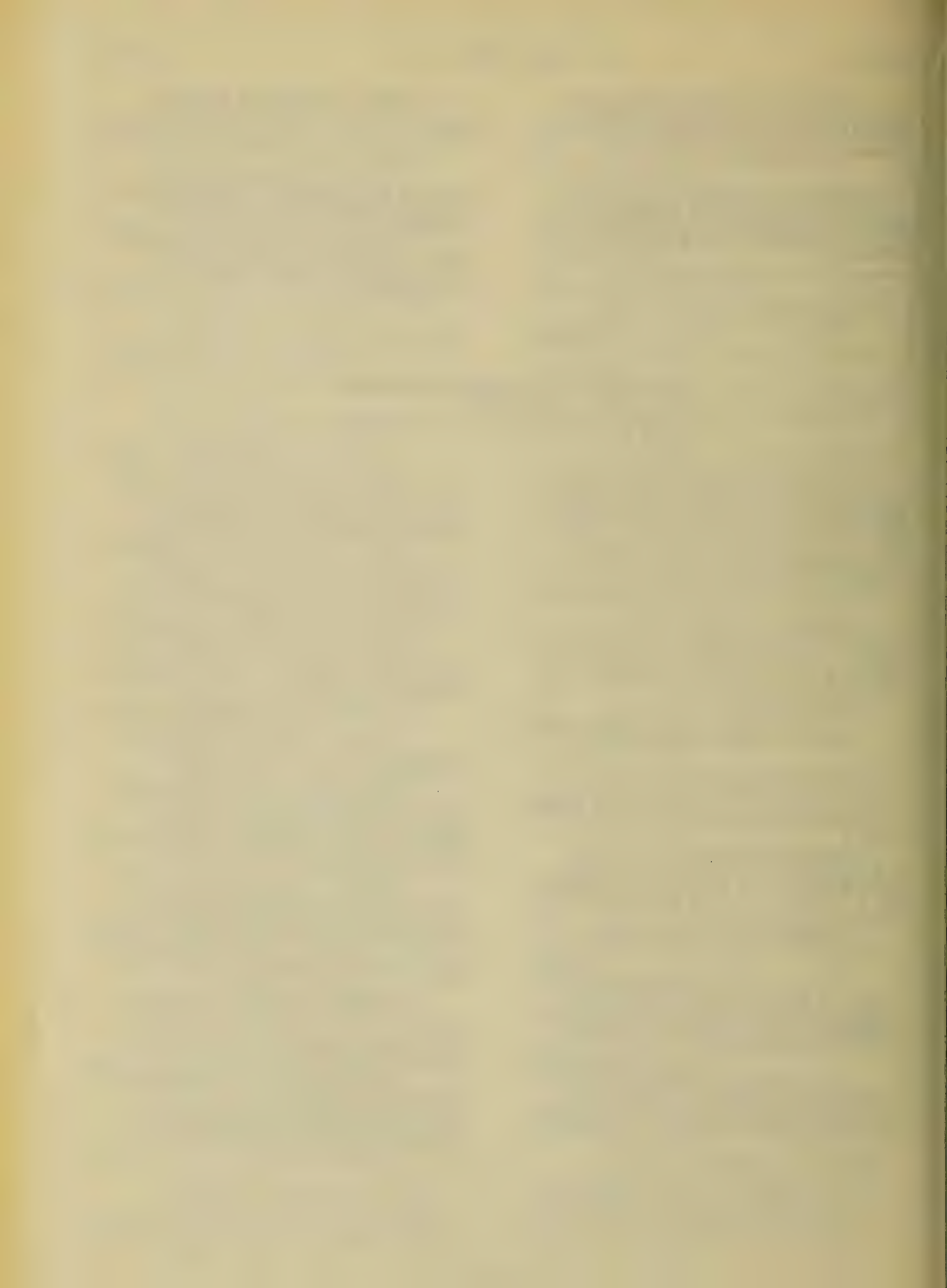
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The purpose of permuting the entries was to obtain additional points of access to the information and to increase the specificity of information under each entry.

The above action is one more instance of the use of computers to increase the accessibility of information in the National Agricultural Library.



BIBLIOGRAPHY OF AGRICULTURE

Vol. 33

August 1969

No. 8

The Bibliography of Agriculture is an index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Publications from any country are indexed, provided they are in one of the languages shown in CAPITALS at top of next column, or have summaries, abstracts, or translated titles in one of those languages.

Literature received more than one year after publication is generally not indexed. Exceptions are made for important scientific publications.

Indexing of articles on the processing of agricultural products is limited to those on primary processing.

Unsigned articles and those signed with pseudonyms or initials, editorials, letters to the editor, and columns appearing regularly, are omitted.

For more detailed coverage of the literature on pests and their control, please consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

FORMAT

The Bibliography is a classified arrangement of references under the following subjects:

- USDA Publications
- State Agricultural Experiment Station Publications
- State Agricultural Extension Service Publications
- Agricultural Economics and Rural Sociology
- Agricultural Products
- Animal Industry
- Engineering
- Entomology
- Food and Human Nutrition
- Forestry
- Plant Science
- Soils and Fertilizers
- Miscellaneous

The classified section is followed by the listing of:

- New Periodicals and Serials
- Translations
- Food and Agriculture Organization of the United Nations (FAO) Publications

The last section of each monthly issue, except November, is the Author and Subject index for that issue.

For monographs the title is shown in the original language, followed by the English version. Titles of foreign language articles in serial publications are given in English only; the language of the text is shown in abbreviated form in parentheses at the end of the title. The following notations are used:

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Agriculture Handbooks

- 48105 U. S. D. A. Cooperative State Research Service.
PROFESSIONAL WORKERS IN STATE AGRICULTURAL EXPERIMENT STATIONS AND OTHER COOPERATING STATE INSTITUTIONS; 1968-69. U. S. D. A. Agr. Handbook 305, rev., 280 p. Mar. 1969. 1 Ag84Ah
- 48106 Crawford, H. S., Kucera, C. L., and Ehrenreich, J. H.
OZARK RANGE AND WILDLIFE PLANTS.
U. S. D. A. Agr. Handbook 356, 236 p. Ref. Jan. 1969. 1 Ag84Ah
- 48107 U. S. D. A. Agricultural Stabilization and Conservation Service.
COMPILATION OF STATUTES RELATING TO SOIL CONSERVATION, ACREAGE DIVERSION, MARKETING QUOTAS AND ALLOTMENTS, WHEAT CERTIFICATES, COMMODITY CREDIT CORPORATION, PRICE SUPPORT, EXPORT AND SURPLUS REMOVAL, PUBLIC LAW 480, CROP INSURANCE, SUGAR PAYMENTS AND QUOTAS, MARKETING AGREEMENTS AND ORDERS, SCHOOL LUNCH, CHILD NUTRITION, FOOD STAMP, AND RELATED STATUTES; AS OF JANUARY 1, 1969. U. S. D. A. Agr. Handbook 361, 384 p. Jan. 1969. 1 Ag84Ah
- Compiled under direction of Office of the General Counsel.

Agriculture Information Bulletins

- 48108 Nixon, R. W.
GROWING DATES IN THE UNITED STATES.
U. S. D. A. Agr. Inform. Bull. 207, rev., 56 p. Jan. 1969. 1 Ag84Ab
- Bibliography, p. 51-56.
- 48109 U. S. D. A. Agricultural Research Service.
IMPRINT ON LIVING; A REPORT ON PROGRESS. U. S. D. A. Agr. Inform. Bull. 333, 48 p., map. Jan. 1969. 1 Ag84Ab

Farmers' Bulletins

- 48110 Crooks, D. M., and Klingman, D. L.
POISON IVY, POISON OAK, AND POISON SUMAC; IDENTIFICATION, PRECAUTIONS, ERADICATION. U. S. D. A. Farmers' Bull. 1972, slightly rev., 16 p., map. Dec. 1968. 1 Ag84F
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Crops Research Division.
VARIETIES OF ALFALFA. U. S. D. A. Farmers' Bull. 2231, slightly rev., 12 p. Nov. 1968. 1 Ag84F
- 48112 U. S. D. A. Agricultural Research Service.
Crops Research Division.
GROWING CAULIFLOWER AND BROCCOLI. U. S. D. A. Farmers' Bull. 2239, 12 p. Feb. 1969. 1 Ag84F

Home and Garden Bulletins

- 48113 U. S. D. A. Agricultural Research Service.
Crops Research Division.
ROSES FOR THE HOME. U. S. D. A. Home Gard. Bull. 25, slightly rev., 24 p. Feb. 1969. 1 Ag84Hg
- U. S. D. A. Agricultural Research Service,
Entomology Research Division, cooperating.
- 48114 Reed, L. B., and Webb, R. E.
INSECTS AND DISEASES OF VEGETABLES IN THE HOME GARDEN. U. S. D. A. Home Gard. Bull. 46, slightly rev., 50 p. Oct. 1968. 1 Ag84Hg
- Control.
- 48115 Vance, A. M., and App, B. A.
LAWN INSECTS; HOW TO CONTROL THEM. U. S. D. A. Home Gard. Bull. 53, slightly rev., 24 p. Mar. 1969. 1 Ag84Hg
- 48116 U. S. D. A. Agricultural Research Service.
Human Nutrition Research Division.
POTATOES IN POPULAR WAYS. U. S. D. A. Home Gard. Bull. 55, slightly rev., 22 p. Mar. 1969. 1 Ag84Hg
- Includes recipes.
- 48117 St. George, R. A., Johnston, H. R., and Kowal, R. J.
SUBTERRANEAN TERMITES; THEIR PREVENTION AND CONTROL IN BUILDINGS. U. S. D. A. Home Gard. Bull. 64, slightly rev., 30 p., map. Jan. 1969. 1 Ag84Hg
- Chiefly Reticulitermes.
- 48118 Johnson, G. V., and Smith, F. F.
INSECTS AND RELATED PESTS OF HOUSE PLANTS; HOW TO CONTROL THEM. U. S. D. A. Home Gard. Bull. 67, slightly rev., 16 p. Jan. 1969. 1 Ag84Hg
- 48119 U. S. D. A. Agricultural Research Service.
Crops Research Division.
GROWING AZALEAS AND RHODODENDRONS. U. S. D. A. Home Gard. Bull. 71, slightly rev., 8 p. Mar. 1969. 1 Ag84Hg
- U. S. D. A. Agricultural Research Service,
Entomology Research Division, cooperating.
- 48120 U. S. D. A. Forest Service.
WOOD DECAY IN HOUSES; HOW TO PREVENT AND CONTROL IT. U. S. D. A. Home Gard. Bull. 73, slightly rev., 17 p. Jan. 1969. 1 Ag84Hg
- Seasoned, properly used wood is a dependable building material. In properly designed houses that are well built and well maintained, decay causes little damage. Most damage can be avoided. Prevention is cheap; cure is sometimes costly.
- 48121 Fluno, J. A.
CONTROLLING MOSQUITOES IN YOUR HOME AND ON YOUR PREMISES. U. S. D. A. Home Gard. Bull. 84, rev., 8 p. Dec. 1968. 1 Ag84Hg

- 48122 U. S. D. A. Agricultural Research Service.
Crops Research Division.
GROWING CAMELLIAS. U. S. D. A. Home Gard. Bull. 86, slightly rev., 12 p. Mar. 1969. 1 Ag84Hg
- 48123 U. S. D. A. Agricultural Research Service.
Crops Research Division.
GROWING THE FLOWERING DOGWOOD [CORNUS FLORIDA]. U. S. D. A. Home Gard. Bull. 88, slightly rev., 8 p. Mar. 1969. 1 Ag84Hg
- 48124 U. S. D. A. Agricultural Research Service.
Crops Research Division.
LAWN WEED CONTROL WITH HERBICIDES. U. S. D. A. Home Gard. Bull. 123, slightly rev., 23 p. Dec. 1968. 1 Ag84Hg
Includes weed identification.
- 48125 Cathey, H. M.
GROWING PEONIES. U. S. D. A. Home Gard. Bull. 126, slightly rev., 12 p. Mar. 1969. 1 Ag84Hg
- 48126 U. S. D. A. Agricultural Research Service.
Entomology Research Division.
CONTROLLING THE JAPANESE BEETLE. U. S. D. A. Home Gard. Bull. 159, 16 p. Mar. 1969. 1 Ag84Hg
Popillia japonica.
- 48127 U. S. D. A. Agricultural Research Service.
Crops Research Division.
MINIGARDENS FOR VEGETABLES. U. S. D. A. Home Gard. Bull. 163, 12 p. Mar. 1969. 1 Ag84Hg
- 48129 U. S. D. A. Agricultural Research Service.
Crops Research Division.
PRUNING ORNAMENTAL SHRUBS AND VINES. U. S. D. A. Home Gard. Bull. 165, 16 p. Mar. 1969. 1 Ag84Hg

Leaflets

- 48129 U. S. D. A. Agricultural Research Service.
Animal Disease and Parasite Research Division.
NEWCASTLE DISEASE IN POULTRY; HOW TO CONTROL IT. U. S. D. A. Leaflet. 451, slightly rev., 6 p. folder. Dec. 1968. 1 Ag84L
U. S. D. A. Agricultural Research Service, Animal Health Division, cooperating.
- 48130 U. S. D. A. Agricultural Research Service.
Entomology Research Division.
HOW TO CONTROL BED BUGS. U. S. D. A. Leaflet. 453, slightly rev., 8 p. Feb. 1969. 1 Ag84L
Cimex lectularius and C. hemipterus.
- 48131 U. S. D. A. Agricultural Research Service.
Entomology Research Division.
CATTLE LICE; HOW TO CONTROL THEM. U. S. D. A. Leaflet. 456, rev., 8 p. Feb. 1969. 1 Ag84L
U. S. D. A. Agricultural Research Service, Animal Disease and Parasite Research Division, cooperating.

Marketing Research Reports

- 48132 Grizzell, W. G., and Myers, J. M.
MECHANICAL SIZING OF CELERY STALKS BY WEIGHT. U. S. D. A. Marketing Res. Rep. 822, 12 p. Dec. 1968. 1 Ag84Mr
Summary, p. 1.
- 48133 Lundquist, A. L.
IMPROVED HANDLING METHODS AND LAYOUT IN AFFILIATED FROZEN FOOD WAREHOUSES. U. S. D. A. Marketing Res. Rep. 823, 33 p. Ref. Feb. 1969. 1 Ag84Mr
Summary, p. 1-2.
- 48134 Karitas, J. J.
PACKAGING PRODUCE IN TRAYS AT THE CENTRAL WAREHOUSE. U. S. D. A. Marketing Res. Rep. 827, 39 p. Feb. 1969. 1 Ag84Mr
Fresh fruits and vegetables.
Summary, p. 1.
- 48135 Boles, P. P., and Blackmore, W. E.
FOOD DISTRIBUTION FACILITIES FOR SALT LAKE CITY, UTAH. U. S. D. A. Marketing Res. Rep. 829, 30 p., map. Mar. 1969. 1 Ag84Mr
Summary, p. 1.

- 48136 Doordan, M. L., and Volz, M. D.
AN EVALUATION OF ON-PREMISE AND BAKE-OFF BAKERY DEPARTMENTS IN RETAIL FOODSTORES. U. S. D. A. Marketing Res. Rep. 834, 29 p. Dec. 1968. 1 Ag84Mr
Various costs and returns situations.
Summary, p. 1.
- 48137 Miklius, W.
ECONOMIC PERFORMANCE OF MOTOR CARRIERS OPERATING UNDER THE AGRICULTURAL EXEMPTION IN INTERSTATE TRUCKING. U. S. D. A. Marketing Res. Rep. 838, 22 p. Ref. Jan. 1969. 1 Ag84Mr
Motor Carrier Act of 1935.
Summary, p. IV.

Miscellaneous Publications

- 48138 U. S. D. A. Agricultural Research Service.
SELF-FEEDER FOR CATTLE; COOPERATIVE FARM BUILDING PLAN NO. 6045. U. S. D. A. Misc. Publ. 1124, 2 p. Mar. 1969. 1 Ag84M
- 48139 U. S. D. A. Agricultural Research Service.
FREE-STALL BARN FOR 60 [DAIRY] COWS; COOPERATIVE FARM BUILDING PLAN NO. 6030. U. S. D. A. Misc. Publ. 1125, 2 p. Mar. 1969. 1 Ag84M
- 48140 U. S. D. A. Agricultural Research Service.
PORTABLE CORRAL-TRANSPORT; COOPERATIVE FARM BUILDING PLAN NO. 6041. U. S. D. A. Misc. Publ. 1126, 2 p. Mar. 1969. 1 Ag84M
Cattle and horses.
- 48141 U. S. D. A. Agricultural Research Service.
3-STORY BROILER HOUSE; COOPERATIVE FARM BUILDING PLAN NO. 6036. U. S. D. A. Misc. Publ. 1129, 2 p. Mar. 1969. 1 Ag84M
- 48142 U. S. D. A. Agricultural Research Service.
ROADSIDE MARKET; COOPERATIVE FARM BUILDING PLAN NO. 6027. U. S. D. A. Misc. Publ. 1131, 2 p. Mar. 1969. 1 Ag84M
- 48143 U. S. D. A. Agricultural Research Service.
LOOSE-HOUSING SYSTEM (COVERED FREE STALL) FOR 124 DAIRY COWS; COOPERATIVE FARM BUILDING PLAN NO. 6031. U. S. D. A. Misc. Publ. 1132, 2 p. Mar. 1969. 1 Ag84M

Program Aid

- 48144 U. S. D. A. Forest Service.
CAMPING; THE NATIONAL FORESTS, AMERICA'S PLAYGROUNDS. U. S. D. A. PA-502, slightly rev., 17 p., map. Mar. 1969. 1 Ag84Pro
- 48145 U. S. D. A. Forest Service.
SKIING; THE NATIONAL FORESTS, AMERICA'S PLAYGROUNDS. U. S. D. A. PA-525, rev., 24 p., map. Dec. 1968. 1 Ag84Pro
- 48146 U. S. D. A. Agricultural Research Service.
Plant Pest Control Division.
WATCH FOR THE CEREAL LEAF BEETLE [OULEMA MELANOPUS]. U. S. D. A. PA-550, slightly rev., 3 p. Dec. 1968. 1 Ag84Pro
Identification.
- 48147 U. S. D. A. Agricultural Research Service.
Plant Pest Control Division.
THE GOLDEN NEMATODE OF POTATOES AND TOMATOES. U. S. D. A. PA-816, slightly rev., 4 p. Feb. 1969. 1 Ag84Pro
- 48149 U. S. D. A. Consumer and Marketing Service.
USDA EGG PRODUCTS INSPECTION; A SAFE-GUARD FOR QUANTITY BUYERS. U. S. D. A. PA-886, 6 p., folder. July 1968. 1 Ag84Pro
- 48149 U. S. D. A. Forest Service.
OUTDOOR SAFETY TIPS. U. S. D. A. PA-887, 13 p. Nov. 1968. 1 Ag84Pro
Recreation in the national forests.
- 48150 U. S. D. A. Office of Information.
PESTICIDE SAFETY IN YOUR HOME. U. S. D. A. PA-895, 8 p., folder. Dec. 1968. 1 Ag84Pro
- 48151 U. S. D. A. Federal Extension Service.
COMMUNITY RESOURCE DEVELOPMENT; HOW COOPERATIVE EXTENSION HELPS. U. S. D. A. PA-902, 8 p., folder. Feb. 1969. 1 Ag84Pro

- 48152 U. S. D. A. Agricultural Stabilization and Conservation Service.
THE 1969 VOLUNTARY FEED GRAIN [PRO-
GRAM] AND WHEAT PROGRAMS. U. S. D. A. PA-906,
11 p. Jan. 1969. 1 Ag84Pro

Statistical Bulletins

- 48153 U. S. D. A. Consumer and Marketing Service.
Dairy Division. Dairy Market News Branch.
POULTRY MARKET STATISTICS, 1968 ANNU-
AL SUMMARY. U. S. D. A. Statist. Bull. 433,56 p. Apr.
1969. 1 Ag84S
U. S. D. A. Consumer and Marketing Service,
Poultry Division, Poultry Market News Branch, cooper-
ating.
Includes products.

AGRICULTURAL RESEARCH SERVICE

- 48154 McIntosh, D. L.
SUITABILITY OF SEVERAL FUNGICIDES FOR
TREATING SOIL INFESTED WITH PHYTOPHTHORA
CACTORUM TO PREVENT CROWN ROT DISEASE OF
APPLE TREES. Plant Dis. Rep. 53(3):182-185. Mar.
1969. 1.9 P69P

Sodium p-(dimethylamino)benzenediazosulfonate (Dex.) and bis[1,2,2-trichloroethyl] sulfide (C-4497), both as 5% granules, sodium dinitro-o-cresol (DNOC) soluble powder and 1-chloro-2-nitropropane were effective in laboratory tests in killing mycelium of *Phytophthora cactorum* to a depth of several inches in sandy loam, silt loam, and muck soils when applied to the surface and watered with the equivalent of 3 acre-inches over a period of several hours. Dex. did not injure roots of young apple seedlings at the rates used. The other compounds were phytotoxic. P. cactorum was isolated from soil of some orchard sites that had been treated with Dex. and C-4497, but recoveries were significantly fewer than from control of DNOC-treated sites.

- 48155 El-Kandelgy, S. M., and Wilcoxson, R. D.
TRANSMISSION AND TRANSLLOCATION OF
RED CLOVER VEIN MOSAIC VIRUS IN CLOVER. Plant
Dis. Rep. 53(3):200-203. Ref. Mar. 1969. 1.9 P69P
Infection of 6-day-old seedlings of three red
clover varieties failed when unifoliate leaves were me-
chanically inoculated with red clover vein mosaic virus (RCVMV), but infection of 18-day-old and 40-day-old
plants succeeded; a few of the older plants escaped infec-
tion. When roots of seedling plants of red clover, alsike,
and sweet clover and *Gomphrena globosa* were soaked in
crude extract from clover plants infected with RCVMV,
the seedlings were generally stunted and the virus was
detected in the foliage of alsike and sweet clovers and in
G. globosa. RCVMV was not detected in plant parts not
inoculated until 10 days after inoculation of leaflets and
then it was first found in the roots. A few days later it
was detected in all parts of the plants.

- 48156 Manning, W. J., Campbell, F. J., and Glickman,
M.
EFFECTS OF FUNGICIDE DRENCHES ON ES-
TABLISHED POINSETTIA [EUPHORBIA PULCHERRIMA]
PLANTS. Plant Dis. Rep. 53(3):225-227. Mar. 1969.
1.9 P69P

Soil fungicides, recommended as soil drenches
to prevent or control root diseases of potted poinsettias,
were evaluated for possible phytotoxic effects. High and
low rates and single and repeated applications were com-
pared. No phytotoxic effects were observed on any plant
parts for any treatment. Root systems were more exten-
sive and disease-free when higher rates of fungicides
were used with repeated applications.

- 48157 Spears, J. F.
GOLDEN NEMATODE [HETERODERA ROSTO-
CHIENSIS] FOUND IN DELAWARE. Plant Dis. Rep. 53
(4):243. Apr. 1969. 1.9 P69P
Potatoes.

- 48158 Gomec, B., Blodgett, E. C., and Aichele, M. D.
INDEX TESTS OF CERTIFIED AND UNCER-
TIFIED NURSERY FRUIT TREES IN WASHINGTON IN
1968. Plant Dis. Rep. 53(4):243-244. Apr. 1969. 1.9 P69P
Free of ring spot.

- 48159 Epps, J. M.
NINE VARIETIES OF SOUTHERN PEAS RE-
SISTANT TO THE SOYBEAN CYST NEMATODE [HETE-
RODERA GLYCINES]. Plant Dis. Rep. 53(4):245. Apr.
1969. 1.9 P69P

- 48160 Ullstrup, A. J., and Sun, M. H.
THE PREVALENCE OF CRAZY TOP OF CORN
IN 1968. Plant Dis. Rep. 53(4):246-250. Apr. 1969.
1.9 P69P

Crazy top of corn was unusually prevalent in
Indiana and some adjacent States in 1968. The excessive
rainfall during May saturated soils and provided a con-
dition favorable for infection by the parasite, *Sclerophthora*
macrospora. Corn planted after the rains subsided during
the last days of May and early June did not show evidence
of the disease.

Seeds from about 250 ears, collected from the
few infected plants that were not barren, were planted in
the greenhouse. Seedlings from about 30 percent of these
ears were infected with the fungus. Evidence for infection
was based on symptoms and the presence of the fungus
within the host tissues. Although seed transmission has
been demonstrated, its role in dissemination of the patho-
gen is concluded to be negligible.

Sporangia were not observed to develop under
field conditions, or on young plants kept in a moist cham-
ber in the greenhouse. Sections of leaves, from these
same plants, held in a saturated atmosphere in vials did
produce several successive crops of sporangia. Germina-
tion generally was by zoospore formation under the con-
ditions of the experiment (23°C), but a few germinated
directly by germ tube.

- 48161 Ullstrup, A. J.
"BUGGY-WHIP" OF CORN AND ITS RELATION
TO THE INCIDENCE OF COMMON SMUT. Plant Dis.
Rep. 53(4):250-252. Apr. 1969. 1.9 P69P

Ustilago zeae.
"Buggy-whip" or "onion-leaf" of corn was un-
usually prevalent in Indiana and Illinois in 1968. The
characteristic symptom is the fusion of the upper portion
of the plant into a tube enclosing upper leaves and the tas-
sel. Varying degrees of fusion were observed from a
slight amount to complete enclosure. The tube appears to
be composed of midrib tissue, thick and heavily lignified.
The incidence of common smut was much higher on
plants affected by buggy-whip than on those free from
symptoms. The incidence of buggy-whip ranged from a
trace to 95 percent in some fields. Grain yields were
appreciably reduced in fields where the prevalence of
buggy-whip was over 25 percent.

That buggy-whip is directly related to excessive
absorption of 2,4-D was indicated by the absence of the
condition in some fields where the herbicide was not ap-
plied. The abnormally wet period during most of May is
believed to be responsible for over-absorption of the her-
bicide. Corn planted after the wet period did not show
buggy-whip.

- 48162 Laut, J. G., Oshima, N., and Dickens, L. E.
THE RECURRENCE OF DUTCH ELM DISEASE
IN COLORADO. Plant Dis. Rep. 53(4):253. Apr. 1969.
1.9 P69P

Ceratocystis ulmi on *Ulmus americana*.

- 48163 McFadden, L. A.
AGLAONEMA PICTUM, A NEW HOST OF ER-
WINIA CHRYSANTHEMI. Plant Dis. Rep. 53(4):253-254.
Apr. 1969. 1.9 P69P

- 48164 Spalding, D. H., and Smale, B. C.
COMPARATIVE INTERACTIONS OF ERWINIA
CAROTOVORA AND ERWINIA AMYLOVORA WITH PEAR
AND POTATO TISSUES. Plant Dis. Rep. 53(4):255-256.
Apr. 1969. 1.9 P69P

Ethyl acetate extracts of leaves or stems of
"Bartlett" pear trees (*Pyrus communis*) inhibited growth
of *Erwinia carotovora* (L. R. Jones) Holland more than
growth of *E. amylovora* (Burrill) Winslow, et al. Ethyl
acetate extracts of leaves and petioles of potato plants
(*Solanum tuberosum*) inhibited growth of *E. amylovora*
more than growth of *E. carotovora*. Heavy suspensions of
E. carotovora injected into the soft stem tissue of budded
Bartlett pear trees in the greenhouse caused blackening of
the injected tissue. Similar blackening occurred in trees
injected with clear supernatant fluid from centrifuged
potato tissue rotted by *E. carotovora*. The blackened stem
tissue resembled that seen in fire blight, but the affected
area did not enlarge and the tissue did not ooze fluid.
The black tissue reaction was not produced in potato
plants, nor in pear trees injected with washed cells of *E.*
carotovora.

48165 Cox, R. S.

A FLOWER BLIGHT OF CHRYSANTHEMUM IN SOUTH FLORIDA. Plant Dis. Rep. 53(4):257-259. Apr. 1969. 1,9 P69P

A flower blight not previously described caused an estimated loss of half a million dollars to the chrysanthemum growers in the Stuart, Florida area. It was correlated with unusual weather resulting in senescent tissues in the composite flower. The disease caused a petal necrosis ultimately encompassing the entire flower head. Although causal relations were not established, several fungi (*Alternaria solani*, *A. tenuis*, and *Stemphylium* spp.) were associated. Tetrachloroisophthalonitrile and the fungicides provided control.

48166 Griffin, G. D., and Jorgenson, E. C.

LIFE CYCLE AND REPRODUCTION OF MELOIDOGYNE HAPLA ON POTATO. Plant Dis. Rep. 53(4):259-261. Apr. 1969. 1,9 P69P

The optimum temperature for reproduction of *Meloidogyne hapla* on "Russet Burbank" potato is 24°C. There was no reproduction at 15 and 35°, and reproduction was partially inhibited at 20 and 30°. Viable eggs were first observed after 6 weeks at 30°. The life cycle of *M. hapla* at 25° was approximately 7 weeks, although second-stage larvae from the second generation were not recovered from the soil until 10 weeks after inoculation.

48167 Brigham, R. D., and Minton, E. B.

RESISTANCE OF DWARF-INTERNODE CASTOR (*RICINUS COMMUNIS*) TO VERTICILLIUM WILT. Plant Dis. Rep. 53(4):262-266. Apr. 1969. 1,9 P69P

Dwarf-internode castor (*Ricinus communis*) plants from 16 selections were tolerant to *Verticillium albo-atrum* Reinke & Berth. in naturally infested field soils at Lubbock, Texas while cotton was extensively damaged. When 32 castor selections were grown on artificially infested field soils, leaf and vascular symptoms were not observed, and the fungus was not isolated from leaf petioles or stems. In the first of two greenhouse experiments, 3 of 13 inoculated castor seedlings showed chlorotic cotyledons; the fungus was cultured from 2. Similarly inoculated cotton seedlings were defoliated or dead in 35 days. Inoculated castor plants in the second experiment did not show foliar symptoms. The fungus was cultured from several roots and a single leaf and stem from stems. In view of the field observations, low percentage of recovery from plant parts, and the lack of definite foliar and vascular symptoms, the selections of castor tested are apparently highly tolerant to strains of the pathogen virulent on cotton.

48168 Singh, A. B.

A NEW VIRUS DISEASE OF CARICA PAPAYA IN INDIA. Plant Dis. Rep. 53(4):267-269. Apr. 1969. 1,9 P69P

Symptomatology, host range, physical properties, and insect transmission of papaya leaf reduction virus (PLRV) have been studied. Papaya plants infected with PLRV have greatly reduced thread-like leaves at the top. Infected plants are stunted and latex flow is reduced. The virus is restricted to *Carica papaya*, is transmitted by sap and by the aphid *Myzus persicae* (Sulzer), and is nonpersistent. PLRV remained active up to a dilution of 1:100 and was inactivated on exposure to 50°C for 10 minutes. In crude juice it remained active for 3, but not for 4, days. PLRV is different from all papaya viruses so far reported.

48169 Miller, D. R., and Swain, K. M.

RHABDOCLINE [PSEUDOTSUGAE] NEEDLE CAST FOUND ON BIGGONE DOUGLAS-FIR [PSEUDOTSUGA MACROCARPA]. Plant Dis. Rep. 53(4):270. Apr. 1969. 1,9 P69P

In February 1968 Rhabdocline needle cast was found, for the first time, infecting needles of biggone Douglas-fir in southern California.

48170 Schroeder, W. T., and Providenti, R.

RESISTANCE TO BENOMYL [FUNGICIDE 1991] IN POWDERY MILDEW OF CUCURBITS. Plant Dis. Rep. 53(4):271-275. Apr. 1969. 1,9 P69P

Isolated single colonies of cucurbit powdery mildew, presumably incited by *Sphaerotheca fuliginea* (Schlecht.) Poll., produced on leaves of plants grown in soil drenched with 25 mg of actual benomyl were demonstrated to be forms of the fungus resistant to the systemic action of the fungicide. Limited surveys among field-grown cucurbits indicated probable natural occurrence of benomyl-resistant mildew. In a selection of cucumber with field tolerance to powdery mildew, a benomyl-resistant form of the fungus developed profusely on the leaves of plants treated with benomyl, but only sparingly on leaves of nontreated plants, suggesting the possibilities

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that the fungus was becoming dependent upon benomyl, or that benomyl was interfering with the expression of inherent tolerance within the host.

48171 Jones, J. P., and Woltz, S. S.

FUSARIUM [XYSPORIUM LYCOPERSICI] WILT (RACE 2) OF TOMATO: CALCIUM, pH, AND MICRONUTRIENT EFFECTS ON DISEASE DEVELOPMENT. Plant Dis. Rep. 53(4):276-279. Apr. 1969. 1,9 P69P

Leon fine sand, with a pH of 4.4 and 4.5, was amended with hydrated lime, gypsum, sodium hydroxide, a complete micronutrient solution, and a complete micronutrient solution minus zinc in two greenhouse pot experiments. The addition of hydrated lime greatly decreased the incidence and severity of Fusarium wilt (race 2) to tomato. Gypsum and sodium hydroxide slightly reduced the incidence and severity of the disease. The complete micronutrient minus Zn soil amendment and the lack of a micronutrient amendment tended to decrease incidence and severity of wilt but the results were inconclusive. The possibility is discussed that the control of wilt by hydrated lime was due to a deficiency of micronutrients created by the increase in the pH of the soil solution and to an increased supply of Ca.

48172 Hunter, J. E., Buddenhagen, I. W., and Kojima, E. S.

EFFICACY OF FUNGICIDES, HOT WATER AND GAMMA-IRRADIATION FOR CONTROL OF POSTHARVEST FRUIT ROTS OF PAPAYA. Plant Dis. Rep. 53(4):279-284. Apr. 1969. 1,9 P69P

Incidence of postharvest fruit rots of papaya was reduced approximately 50 percent by 2-minute dips in a 2-aminobutane carbonated solution (1 percent active material) at 40°C, pH 10.5; or by fumigating with 2-aminobutane for 2 hours at 300 ppm. Higher rates resulted in better control but fruits failed to degreen evenly. Significantly better control was obtained by submerging fruits in water at 118-120°F for 20 minutes. Similar water treatment at 114-116°F failed to control rots. Gamma-irradiation treatment (75-100 krad), alone or in combination with hot water or 2-aminobutane, effectively extended fruit shelf-life but had limited fungistatic effect. Higher levels of irradiation were injurious to fruits. Rhizopus fruit rot was controlled with 2,6-dichloro-4-nitroaniline dips at 1000-2000 ppm.

48173 Latch, G. C. M.

CHEMOTHERAPY OF HEAD SMUT (USTILAGO BULLATA) IN BROMUS WILLDENOWII. Plant Dis. Rep. 53(4):284-286. Apr. 1969. 1,9 P69P

Fungicide 1991. Healthy seed was obtained from a mature Bromus willdenowii plant infected with head smut (*Ustilago bullata*) by treating clones with the systemic fungicides 2,3-dihydro-5-carboxanilido-6-methyl-1,4-oxathin-4,4-dioxide (DCMOD), 2,3-dihydro-5-carboxanilido-6-methyl-1,4-oxathin (DCMO), or benomyl.

48174 Halisky, P. M., Funk, C. R., and Babinski, P. L.

CHEMICAL CONTROL OF STRIPE SMUT IN "MERION" KENTUCKY BLUEGRASS [POA PRATENSIS]. Plant Dis. Rep. 53(4):286-288. Apr. 1969. 1,9 P69P

Evaluation trials were conducted with benomyl, PCNB, and B-33172 fungicides to determine their effectiveness against stripe smut (*Ustilago striiformis*). The chemicals were applied to replicated plots of heavily smutted "Merion" Kentucky bluegrass turf. The data show that the systemic fungicide, benomyl, was highly effective against this disease. PCNB also was effective; however, the formulation used in these tests imparted a yellow discoloration to the turf. B-33172, on the other hand, was generally ineffective for control of stripe smut.

48175 Skilling, D. D.

THE EFFECT OF TEMPERATURE ON ASCOSPORE RELEASE BY SCLERODERRIS LAGERBERGII. Plant Dis. Rep. 53(4):289-291. Apr. 1969. 1,9 P69P

Ascospores of *Scleroderma lagerbergii* were discharged at temperatures ranging from 3-29°C, with maximum discharge occurring at 17°. At this temperature a major spore discharge started within 4 hours after the apothecia were moistened. In contrast, at 3° only one spore was released during the first 40 hours. Rainfall for longer than 4 hours at temperatures from 17-25° would result in major ascospore release. To protect pine nursery stock, a fungicide spray should be applied as soon as possible whenever these environmental conditions develop.

48176 Skilling, D. D.
SPORE DISPERSAL BY SCLERODERRIS LAGERBERGII UNDER NURSERY AND PLANTATION CONDITIONS. Plant Dis. Rep. 53(4):291-295. Ref. Apr. 1969. 1.9 P69P

Pinus banksiana.

During a 2-year study in a red pine plantation and a nursery in northern Michigan, ascospores of *Scleroderris lagerbergii* were collected from April 9 to October 14, with the major collection from May 15 to September 3. Spore discharge and recovery were closely related to rainfall. During 1967, over 96 percent of the spores were recovered within 24 hours after rain. No evidence of wind dissemination of conidia was found.

48177 Johnson, A. W.
CONTROL OF MELOIDOGYNE INCOGNITA ON CREEPING BUGLEWEED (AJUGA REPTANS) WITH NEMATOCIDAL DRENCHES. Plant Dis. Rep. 53(4):295-298. Apr. 1969. 1.9 P69P

One application of a mixture of methanesulfonic acid, 2,4-dichlorophenyl ester and 1,2-dibromo-3-chloropropane (SD 1897: a mixture of SD 7727 and DBCP) and 1, 2-dibromo-3-chloropropane (DBCP) controlled *Meloidogyne incognita* on three cultivars of creeping bugleweed for 5 months.

48178 Hodges, C. F.
ADDITIONAL VARIETIES OF AGROSTIS PALUSTRIS INFECTED BY USTILAGA STRIFORMIS VAR. AGROSTIDIS. Plant Dis. Rep. 53(4):298-299. Apr. 1969. 1.9 P69P

48179 Young, M. C.
CONTROL OF THE CITRUS NEMATODE, TYLENCHULUS SEMIPENETRANS, WITH 1,2-DIBROMO-3-CHLOROPROPANE IN TAIWAN. Plant Dis. Rep. 53(4):300-301. Apr. 1969. 1.9 P69P

An experiment for controlling the citrus nematode, *Tylenchulus semipenetrans* Cobb, on living citrus trees using 1,2-dibromo-3-chloropropane (DBCP) in aqueous emulsion has been conducted from October 1967 to October 1968 at the Yangmingshan Field Station, Taipei, Taiwan, China. Basin application of the chemical (1.47 kg active per liter) at rates of 6, 4, and 2 ml (8, 6, 9, and 2, 9 g active) per m² to the sandy loam soil in which the trees grew resulted in reduction in citrus nematode population of 97 percent, 92 percent, and 59 percent, respectively after 1 year. From an economic standpoint, application of emulsifiable DBCP to sandy loam soil at the rate of 5, 9 g per m² is considered effective for controlling the citrus nematode in Taiwan.

48180 Anderson, J. L., Wądłay, B. N., and Schaeffer, J. P.
PSEUDOMONAS SYRINGAE INFECTION OF SWEET CHERRY FRUIT IN UTAH. Plant Dis. Rep. 53(4):301-303. Apr. 1969. 1.9 P69P

Prior to 1967 *Pseudomonas syringae* had not been identified as a causal agent of stone fruit diseases in Utah. Twig and blossom blight in 1967 and fruit canker in 1968 were locally severe in northern Utah sweet cherry orchards. These disease outbreaks were correlated with unusually cool, wet weather during late spring.

48181 Peacher, P. H.
LIVE OAK [QUERCUS VIRGINIANA] IN MISSISSIPPI INFECTED BY ENDOTHIA PARASITICA. Plant Dis. Rep. 53(4):304. Apr. 1969. 1.9 P69P

Mississippi.

48182 Epstein, A. H.
LOW TEMPERATURE SPRAYS FOR DUTCH ELM DISEASE CONTROL. Plant Dis. Rep. 53(4):304-306. Apr. 1969. 1.9 P69P

Cold weather control of *Scolytus multistriatus* and *Hylurgopinus rufipes* that transmit *Ceratocystis ulmi* to *Ulmus americana*.

Methanol depressed the freezing point of emulsions of methoxychlor and water. The extent of freezing-point depression was proportional to the concentration of methanol in the water. Substantial residues of methoxychlor were detected on elm twigs 123 days after application of an emulsion containing 30 percent methanol with a mistblower at -7.77°C. Similar freezing-point depressions were achieved with DDT emulsions.

48183 Brown, H. D., Kucera, D. R., and Peacher, P. H.
DUTCH ELM DISEASE DETECTED IN ALABAMA. Plant Dis. Rep. 53(4):307. Apr. 1969. 1.9 P69P

Ceratocystis ulmi on *Ulmus alata* and *U. americana*.

48184 Roane, C. W., and Tolin, S. A.
DISTRIBUTION AND HOST RANGE OF MAIZE DWARF MOSAIC VIRUS IN VIRGINIA. Plant Dis. Rep. 53(4):307-310, map. Ref. Apr. 1969. 1.9 P69P

Maize dwarf mosaic virus (MDMV) has been identified in 49 counties scattered across Virginia. We report five perennial grass species as new hosts for MDMV and nine previously untested species as nonhosts. Although other perennial species can be infected by the virus, epidemic proportions of the disease occur only if *Sorghum halepense* is present and infected with MDMV.

48185 Wicker, E. F.

SUSCEPTIBILITY OF COASTAL FORM AND CENTRAL MONTANA DOUGLAS-FIR [PSEUDOTSUGA MENZIESII] TO ARCEUTHOBium DOUGLASSII. Plant Dis. Rep. 53(4):311-314. Ref. Apr. 1969. 1.9 P69P

Coastal form Douglas-fir is susceptible to *Arceuthobium douglasii* Engelm. when growing in the greenhouse and at field locations in western Washington. Central Montana Douglas-fir is susceptible to the same dwarf mistletoe when growing under greenhouse conditions; susceptibility under field conditions was not tested. The nonoccurrence of *A. douglasii* on Douglas-fir in northwestern Oregon, western Washington, and central Montana is discussed.

48186 Holmes, J., and Rich, A. E.
THE CONTROL OF BLACK ROT CANKERS ON APPLE TREES IN NEW HAMPSHIRE. Plant Dis. Rep. 53(4):315-318. Ref. Apr. 1969. 1.9 P69P

A survey of cankered limbs in apple orchards in New Hampshire showed that in neglected orchards over two-thirds of the cankers were infected with *Physalospora obtusa*. Commercial orchards varied from a low incidence of infection to 33 percent of the cankers infected with *P. obtusa*. On 100 marked cankers *P. obtusa* was present on 82 percent of the cankers examined and was probably the cause of at least 33 percent of them. Phenylmercuric acetate was the most effective fungicide tested in laboratory experiments for the inhibition of the growth of *P. obtusa*. Field experiments also showed that this material reduced the elongation of cankers by 68 percent as compared with controls. The period of greatest canker elongation occurred from early July to the middle of August. This coincided with a very dry period, which suggests that moisture stress may contribute to increased canker growth. Phenylmercuric acetate should be evaluated further for control of black rot cankers.

48187 Forsberg, J. L.
AN UNEXPECTED EFFECT OF BENOMYL [FUNGICIDE 1991] ON TWO GLADIOLUS VARIETIES. Plant Dis. Rep. 53(4):318-319. Apr. 1969. 1.9 P69P

Corm production.

48188 Powers, H. R.
VIRGINIA PINE [PINUS VIRGINIANA], A NEW HOST FOR CRONARTIUM COMANDRAE. Plant Dis. Rep. 53(4):320. Apr. 1969. 1.9 P69P

No natural comandra rust infections were found on native Virginia pine growing on the Cumberland Plateau in areas where the disease has caused extensive losses in young loblolly pine plantations. Young potted Virginia pine seedlings suffered approximately 25 percent infection, however, when exposed in the same area during the summer of 1967.

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DIETS OF LOW-INCOME FAMILIES. U. S. Agr. Res. Serv. ARS-62-5:3-7. Mar. 1969. A321.9 R31

48190 Swope, D. A.
DIETS OF MEN, WOMEN, AND CHILDREN. U. S. Agr. Res. Serv. ARS-62-5:7-10. Mar. 1969. A321.9 R31

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THE WHOLE IS GREATER THAN THE SUM
OF THE PARTS. Ext. Serv. Rev. 40(4):16. Apr. 1969.
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Rural-urban relations.

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A SUPER-SIZE GRAIN TERMINAL COMES TO
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A281.9 F76Fo

Silos will improve U. S. exports.

48275 Keefe, J. F.
AN AFTERLOOK AT THE PHILIPPINE RICE
BREAKTHROUGH. Foreign Agr. 7(13):4-5. Mar.31,1969.
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Policies and programs urging self-sufficiency.

48276 Nicolini, M. A.
U.S. FARM EXPORTS TO REGIONAL TRADE
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Four regional trade groups have accounted for
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the last 10 years. However, the future is less certain as
they consider more restrictive policies.

48277 Urban, F. S.
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Includes efforts of Central American Common
Market.

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ANGUS MEAT AND U.S. EXPERT PLEASE
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FIRMER PRICES IN SIGHT FOR BRAZIL'S
FARMERS THROUGH LOAN PROGRAM. Foreign Agr.
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A shift in emphasis from direct crop purchases
to loans has pulled Brazil's minimum price program out
of limbo and given it new life and active support from
farmers.

48280 Evans, D. P.
SELECTIVE EXPANSIONS; BRITAIN'S FARM
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THE JUMPING OFF POINT FOR U.S. FARM
TRADE. Foreign Agr. 7(14):8-11. Apr.7,1969.
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Shipping.
48283 Freeman, T. R.
NEW WHEATS POWER BIGGER PAKISTAN
HARVESTS. Foreign Agr. 7(14):12-13. Apr.7,1969.
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48284 Lege, F. M.
EMPHASIS SHIFTS IN AUSTRALIA'S LIVE-
STOCK INDUSTRY. Foreign Agr. 7(14):16. Apr.7,1969.
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48285 Ehnman, F. W.
YUGOSLAVIA'S PROSPERING MIXED FEED
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But exporters of feed ingredients—notably the United
States—still have a good market there.

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48287 Spillsbury, C. C.
THREE STAGES IN FAR EAST SOYBEAN MARKETS. Foreign Agr. 7(15):6-8. Apr. 14, 1969. A281.9 F76Fo

Trade relating to internal consumption and industry.

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THIRD GOOD FARM YEAR IN A ROW SEEN FOR WEST EUROPE. Foreign Agr. 7(15):11. Apr. 14, 1969. A281.9 F76Fo

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NEW FRONTIERS IN THE FOREIGN MARKET FOR U.S. FARM AND FOOD PRODUCTS. Foreign Agr. 7(15):12-13. Apr. 14, 1969. A281.9 F76Fo

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AVAILABILITIES OF FOODGRAINS IN EAST PAKISTAN SHRINK. Foreign Agr. 7(15):16. Apr. 14, 1969. A281.9 F76Fo
Consumption of rice and wheat exceeds regional yields.

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CANADA LOOKS TO ITS FARM FUTURE. Foreign Agr. 7(16):2-4. Apr. 21, 1969. A281.9 F76Fo
Canadian Agriculture Conference.
In Ottawa last month, the country's agricultural leaders met at a government-sponsored conference to consider the course of the farm industry over the next 10 years.

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POTATOES, A PROMISING FOOD CROP IN INDIA. Foreign Agr. 7(16):5-6. Apr. 21, 1969. A281.9 F76Fo

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BRITISH REPORT CALLS FOR TEXTILE TARIFF PROTECTION. Foreign Agr. 7(16):6. Apr. 21, 1969. A281.9 F76Fo

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FIRST ADJUSTMENT SINCE 1967: HOME MARKET PRICE INCREASES FOR MAJOR DANISH PRODUCTS. Foreign Agr. 7(16):7. Apr. 21, 1969. A281.9 F76Fo

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PHILIPPINE COCONUT ON UPTREND. Foreign Agr. 7(16):7. Apr. 21, 1969. A281.9 F76Fo

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MALAYSIA INAUGURATES NATIONAL RICE YEAR CAMPAIGN. Foreign Agr. 7(16):8. Apr. 21, 1969. A281.9 F76Fo

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U.S. RETAINS SHARE OF BRITISH MARKET FOR FARM GOODS. Foreign Agr. 7(16):11-12. Apr. 21, 1969. A281.9 F76Fo

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EVALUATION OF JAPAN'S WHITE PAPER ON AGRICULTURE. Foreign Agr. 7(16):12. Apr. 21, 1969. A281.9 F76Fo

Includes policies.

FOREST SERVICE

48301 Blew, J. O., and Davidson, H. L.
COMPARISON OF WOOD PRESERVATIVES IN MISSISSIPPI POST STUDY. U. S. Forest Serv. Res. Note FPL-01, 10 p. Mar. 1969. A99.9 F7634Un

Contains service life data on southern pine posts installed at Saucier, Mississippi, in 1949 and 1964 as part of a long-time preservative evaluation.

48302 Hann, R. A.
LONGITUDINAL SHRINKAGE IN SEVEN SPECIES OF WOOD. U. S. Forest Serv. Res. Note FPL-0203, 13 p. Ref. Feb. 1969. A99.9 F7634Un

Measurements were made of longitudinal shrinkage occurring in seven species of wood dried from a green condition to equilibrium at five relative humidities. The relationship of shrinkage to relative humidity and the within-board variability shrinkage of clear, straight-grained lumber are reported. Results of interest are the amount of longitudinal expansion that occurred during drying and the significant variability in longitudinal shrinkage and expansion within a board.

48303 Bjugstad, A. J., Murphy, D. A., and Crawford, H. S.
POOR RETURNS FROM OZARK WOODLAND GRAZING. U. S. Forest Serv. Res. Note NC-60, 2 p. 1968. A5D11.A33

Cattle.
Sixty-three percent of the area in Missouri's National Forests produces forage at the rate of about 50 pounds per acre per year. Forage production on the other 37 percent ranges from a low near 75 pounds per acre in the pine stands to a high of about 200 pounds in the red-cedar stands.

48304 Foltz, B. W., and Johnston, W. F.
GROSS BASAL AREA GROWTH OF NORTHERN WHITE-CEDAR [THUJA OCCIDENTALIS] IS INDEPENDENT OF STAND DENSITY OVER A WIDE RANGE. U. S. Forest Serv. Res. Note NC-61, 4 p. 1968. A5D11.A33

A 20-year study in a Wisconsin swamp station of northern white-cedar indicates that after a second thinning gross basal area growth is independent of stand densities ranging from 90 to 225 square feet of basal area per acre. Mortality, net growth, and ingrowth were also independent of density in the thinned plots.

48305 King, J. P., and Nienstaedt, H.
EARLY GROWTH OF EASTERN WHITE PINE SEED SOURCES IN THE LAKE STATES. U. S. Forest Serv. Res. Note NC-62, 4 p. 1968. A5D11.A33

In 5-year-old test plantations in Minnesota, Wisconsin, and Michigan, eastern white pine seedlings from seed sources that are fast-growing in one location are not necessarily fast-growing in other locations. Until more intensive studies of the Lake States seed sources can be made, foresters should confine collection of white pine seed to local stands.

48306 Schweitzer, D. L.
A COMPUTER PROGRAM TO EVALUATE TIMBER PRODUCTION INVESTMENTS UNDER UNCERTAINTY. U. S. Forest Serv. Res. Note NC-65, 3 p. 1968. A5D11.A33

A computer program has been written in Fortran IV to calculate probability distributions of present worth of investments in timber production. Inputs can include both point and probabilistic estimates of future costs, prices, and yields. Distributions of rates of return can also be constructed.

48307 Stearns, F. W., Schweitzer, D. L., and Creed, W. A.
DEER BROWSE PRODUCTION: RAPID SAMPLING AND COMPUTER-AIDED ANALYSIS. U. S. Forest Serv. Res. Note NC-66, 4 p. 1968. A5D11.A33

Describes field techniques by which winter deer-browse production can be sampled with reasonable accuracy and moderate effort; and presents a computer program which simplifies and expedites the tabulation of the browse data. The method will be useful to both land managers and scientists doing research on the habitat of the white-tailed deer.

48308 Hyvarinen, M. J.
USING D.B.H. AND BUTT LOG QUALITY TO ESTIMATE TREE YIELDS BY SAW LOG GRADE. U. S. Forest Serv. Res. Note NC-67, 2 p. 1968. A5D11.A33
Presents a shortcut method of predicting sugar maple tree yields by saw log grade from d.b.h. and butt log grade.

48309 Echelberger, H. E., and Shafer, E. L.
SOME MANAGERS' VIEWPOINTS ON CAMPERS AND CAMPGROUND OPERATION. U. S. Forest Serv. Res. Note NE-88, 6 p. 1968. A99.9 F7622U
Nine managers of public campgrounds comment on their relations with their campers and some of the management problems they have. Topics include camping fees, reactions to survey interviews, registration procedures, campers' pets, and maintenance of facilities.

48310 Trimble, G. R.

FORM RECOVERY BY UNDERSTORY SUGAR MAPLE [ACER SACCHARUM] UNDER UNEVEN-AGED MANAGEMENT. U. S. Forest Serv. Res. Note NE-89, 8 p. 1968. A99.9 F7622U

A study of advanced sugar maple reproduction on a good site in West Virginia indicated that considerable improvement of stem form takes place after selection cutting in the overstory. The study stems were 1 to 6 inches in d.b.h. and many of them were over 50 years old. To an appreciable extent, flat tops and minor crooks were overcome after partial release.

48311 Plass, W. T.

TREE SURVIVAL AND GROWTH ON FESCUE-COVERED SPOIL BANKS. U. S. Forest Serv. Res. Note NE-90,4 p. 1968. A99.9 F7622U

In spoil-bank revegetation the emphasis today is on site protection. Quick cover crops overplanted to trees or shrubs are recommended on many sites. In this study we tried to determine how an established fescue cover affects tree survival and growth. We found the ground cover did not affect survival but did reduce the height growth of sycamore and sweetgum. It had little effect on growth of white pine and loblolly pine.

48312 Morrow, R. R., and Gibbs, C. B.

VACUUM PUMPING DOUBLES MAPLE SAP YIELD ON FLAT LAND. U. S. Forest Serv. Res. Note NE-91,5 p. 1969. A99.9 F7622U

Vacuum pumping more than doubled maple sap yield from tubing installations on nearly level land during the 1968 season. Increased yields were greatest when sap had to move slightly uphill.

48313 Martignoni, M. E., and Iwai, P. J.

DETERMINATION OF NUCLEOPOLYHEDRON COUNTS AND SIZE FREQUENCY DISTRIBUTIONS BY MEANS OF A COULTER TRANSDUCER. U. S. Forest Serv. Res. Note PNW-85,14 p. Aug. 1968. A99.9 F7625U

Used for inclusion bodies of polyhedrosis virus in *Homocampa pseudotsugata*. A Coulter counter, model B, with upper and lower threshold discriminators and a 30-micron aperture tube, can be used for the enumeration of nucleopolyhedra in suspensions—either pure or with varying amounts of impurities; also can establish size frequency distributions of viral inclusion bodies. Procedures are described in detail and illustrated.

48314 Reukema, D. L.

GROWTH RESPONSE OF 35-YEAR-OLD, SITE V DOUGLAS-FIR TO NITROGEN FERTILIZER. U. S. Forest Serv. Res. Note PNW-86,9 p. Aug. 1968. A99.9 F7625U

During the first 4 years following application, addition of 200 to 600 pounds of nitrogen per acre increased height increment 62 percent and d.b.h. increment 79 to 160 percent. Gross basal area increment was greater with heavier fertilizer applications, but severe snow-breakage was also increased. Thus, net production tended to be greatest with the addition of 200 pounds of nitrogen. Indications are that heavier application rates will have a longer lasting beneficial effect.

48315 Edgren, J. W.

POTENTIAL DAMAGE TO FOREST TREE SEED DURING PROCESSING, PROTECTIVE TREATMENT, AND DISSEMINATION. U. S. Forest Serv. Res. Note PNW-89,8 p. Sept. 1968. A99.9 F7625U

Seed is susceptible to damage each time it is handled. Damage may be inflicted during various steps in processing, treatment with chemicals, or dissemination by seeding devices. There is evidence that seed damage is cumulative. Thus, each new bump or treatment may bring the seed closer to death. Some present practices cause damage to seed, but the contribution to impaired germination from each possible source of damage is not known. Research is needed to develop the best possible methods for processing, treating, and disseminating valuable tree seed.

48316 Crouch, G. L., and Paulson, N. R.

EFFECTS OF PROTECTION FROM DEER ON SURVIVAL AND GROWTH OF DOUGLAS-FIR [PSEUDOTSUGA MENZIESII] SEEDLINGS. U. S. Forest Serv. Res. Note PNW-94,6 p. Nov. 1968. A99.9 F7625U

Protection from deer had little effect on survival of planted and natural Douglas-fir seedlings after eight growing seasons. Protected trees were slightly taller than unprotected trees. Trees from natural seedfall were taller than planted trees. Unprotected planted stock was shorter than its protected counterpart and showed no sign of "catching up." This difference should be of little consequence after a cutting cycle.

48317 Murray, J. R., and Countryman, C. M.

HEAT-RESISTANT ANEMOMETERS FOR FIRE RESEARCH. U. S. Forest Serv. Res. Note PSW-181,6 p. 1968. A99.9 F7652

Heat-resistant anemometers have been developed for measuring horizontal and vertical air flow in fire behavior studies. The anemometers will continue to provide data as long as the anemometer body is less than 650°F. They can survive brief immersion in flame without major damage. These air-flow sensors have aluminum bodies and rotor hubs and stainless steel cups or vanes supported by stainless steel tubing. The anemometers are suitable for use in normal situations as well as in high temperatures.

48319 Boe, K. N.

CONE PRODUCTION, SEED DISPERSAL, GERMINATION IN OLD-GROWTH REDWOOD CUT AND UNCUT STANDS. U. S. Forest Serv. Res. Note PSW-184, 7 p. map. 1968. A99.9 F7652

Records of 5 and 6 years' cone crops in old-growth redwood (*Sequoia sempervirens* [D. Don] Endl.) stands in northern California were studied for silvical facts. They show that (a) the principal trees in both cut and uncut stands bore fair to good cone crops for 5 consecutive years, (b) maximum seed dispersal of both total and sound seed occurred in winter, (c) overtopped trees under 30 inches d.b.h. produced almost no cones, and (d) about 86 percent of sound seed germinated, with most seed germinating in 12 days. The findings are applicable to redwood stands at medium to lower elevations.

48319 Myhre, R. J., and Croxton, R. J.

COLOR CONTACT PRINTS FROM 70-MM. COLOR FILM; PRODUCED BY SMALL PHOTO LAB. U. S. Forest Serv. Res. Note PSW-185,8 p. 1968. A99.9 F7652

Forest research.

Seventy-mm. color photography is gaining wider use as a technique in aerial sampling. To produce a large volume of color contact prints from 70-mm. stereograms, special darkroom equipment had to be built. But standard processing methods needed only slight changes. The procedures and equipment developed can be adapted easily to any photo lab at little expense. And the equipment can be used with other sizes of film and printing materials.

48320 Hirsch, S. N., and others.

PROJECT FIRE SCAN: FIRE MAPPING FINAL REPORT, APRIL 1962 TO DECEMBER 1966; THE USE AND SYSTEM REQUIREMENTS OF INFRARED SCANNERS IN MAPPING WILDFIRES. U. S. Forest Serv. Res. Paper INT-49,55 p., map. Ref. 1968. A99.9 F764U

R. L. Bjornsen, F. H. Madden, and R. A. Wilson, joint authors. An airborne infrared line scanner sensitive to the 3- to 5-micron spectral region mapped 38 forest fires during the 1963, 1964, and 1966 fire seasons. The imagery obtained provided information about the fire perimeter, relative intensity of burning areas, and spot fire location under conditions when smoke or darkness prevented visual reconnaissance. This report describes the operational methods and equipment used, and gives many examples of imagery collected. It discusses the radiometric and electronic characteristics peculiar to fire-mapping applications. A unique dual Polaroid recording camera was developed to provide quickly available imagery for airdrop to fire headquarters.

48321 Krebill, R. G.

COMANDRAE IN THE ROCKY MOUNTAIN STATES. U. S. Forest Serv. Res. Paper INT-50,28 p. Ref. 1968. A99.9 F764U

The development of comandrae blister rust of lodgepole pine is related to physical factors of the environment. After the rust has overwintered in pine stems, prevailing conditions of moisture and temperature often permit its spread and intensification on comandrae. Later in summer and early autumn, when pine-infecting inoculum is present, dry conditions and unfavorable temperatures limit infection of pines. Although destructive, outbreaks of comandrae blister rust are rare in pine stands in the Rocky Mountain States.

NATIONAL AGRICULTURAL LIBRARY

48322 Lotan, J. E.
CONE SEROTINY OF LODGEPOLE PINE
NEAR ISLAND PARK, IDAHO. U. S. Forest Serv. Res.
Paper INT-52,6 p.,map. Ref. 1968. A99.9 F7641
Stands of *Pinus contorta* Dougl. on adjacent
physiographic areas in southeastern Idaho vary in the
serotinous cone fruiting habit. On the Island Park Flat
(Average elevation 6,500 feet) 48 percent of the trees
were classified as predominantly serotinous cone trees
(bearing 90 percent or more serotinous cones). On the
nearby Moose Creek Plateau (average elevation 7,700
feet) only 23 percent of the trees were classified as
serotinous cone trees. The Island Park Flat produced
173,000 serotinous cones per acre, whereas the Moose
Creek Plateau produced only 53,000 such cones per acre.
Cone habit showed no relation to common plot and tree
parameters measured.

48323 Berg, W. A., and Vogel, W. G.
MANGANESE TOXICITY OF LEGUMES SEED-
ED IN KENTUCKY STRIP-MINE SPOILS. U. S. Forest
Serv. Res. Paper NE-119,12 p. 1968. A99.9 F7622Un
The occurrence of manganese toxicity was
studied on six legume species grown in 46 different acid
strip-mine spoils from Kentucky. This toxicity was
characterized by a distinct paling (chlorosis) on the leaf
margins that was readily seen on young leaves of all the
species except *Kobe lespedeza*. Spoil pH was useful in
predicting Mn toxicity on these legumes; water-soluble
Mn extracted from the spoils was not.

48324 Childs, T. W.
ELYTRODERMA DISEASE OF PONDEROSA
PINE [*Pinus ponderosa*] IN THE PACIFIC NORTH-
WEST. U. S. Forest Serv. Res. Paper PNW-69,45 p.
Ref. 1968. A99.9 F7625Un
The disease caused by *Elytroderma deformans*
intermittently results in severe local damage. Based on
field studies since 1949, disease symptoms, vegetative
spread within the host, behavior in sapling stands, and
damage to old growth are discussed. Guidelines are
given to minimize damage in young stands and to manage
mature stands. Despite its alarming appearance, the dis-
ease does not threaten the future of ponderosa pine.

48325 Harris, A. S.
ALASKA CEDAR; A BIBLIOGRAPHY WITH
ABSTRACTS. U. S. Forest Serv. Res. Paper PNW-73,
47 p. 1969. A99.9 F7625Un
This bibliography contains references to North
American and European literature containing informa-
tion on Alaska-cedar (*Chamaecyparis nootkatensis*
(D. Don) Spach).

48326 Mann, C. N.
MECHANICS OF RUNNING SKYLINES. U. S.
Forest Serv. Res. Paper PNW-75,11 p. 1969.
A99.9 F7625Un
Logs.

Presents a general description of running sky-
line systems and easy-to-use procedures for determining
the payload capability of any configuration. Intended pri-
marily as a practical tool for those who plan running sky-
line operations. Included is a mathematical derivation of
the procedures as presented on the worksheets for those
interested in a full understanding of the mechanics of
running skylines.

48327 Lull, H. W.
A FOREST ATLAS OF THE NORTHEAST.
Upper Darby, Pennsylvania, Northeastern Forest Experi-
ment Station, Forest Service, U. S. Department of Agri-
culture, 1968. 46 p.,map. Ref. aSD144.A1418

48328 U. S. D. A. Forest Service. Eastern Tree Seed
Laboratory.
FIFTEENTH ANNUAL REPORT, FISCAL YEAR
1968, BY E. W. BELCHER, AND D. A. BENSON. Macon,
Georgia, 1967. 11 p. Ref. 99.9 G295B1
Southeastern Area, State and Private Forestry
and the Southeastern Forest Experiment Station, U. S.
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48329 Naftalin, M. L.
LINNEANA IN THE COLLECTION OF THE NA-
TIONAL AGRICULTURAL LIBRARY. U. S. Natl. Agr.
Libr. Libr. List 89,43 p. 1968. 1.916 L612
Although the National Agricultural Library is
basically a "working library," its collection also includes
many rare and unusual publications. This bibliography,
the second in the historic book series, lists monographs
which were written by or about the eminent botanist, Carl
von Linne.

The citations, arranged according to year of
publication, date from 1735 to the present. The National
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gress card number (when available) have been included in
the citation.

SOIL CONSERVATION SERVICE

48330 Linford, A. B., and Nielson, E. C.
EROSION ON FEDERAL LAND. Soil Conserv.
34(9):199-200. Apr. 1969. 1.6 So3S
Comparative studies show public and private
lands have similar needs.

48331 Newby, A. E.
NAVAL AIR STATION STOPS FOREST FIRES
AND BEGINS RESTORATION OF WOODLANDS. Soil
Conserv. 34(9):201-202. Apr. 1969. 1.6 So3S

48332 Fleming, K.
SLOCOMB'S MASTER PLAN FOR RESOURCE
DEVELOPMENT. Soil Conserv. 34(9):203-205. Apr. 1969.
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Alabama community planning.

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AGRICULTURAL HALL OF FAME [AND NA-
TIONAL CENTER (KANSAS)] A CONSERVATION SHOW-
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Soil and water.

48334 [Whittington, C. H.
MISSISSIPPI] DELTA TOWN USES RC&D [RE-
SOURCE CONSERVATION AND DEVELOPMENT] AID TO
BEAUTIFY BAYOU. Soil Conserv. 34(9):208. Apr. 1969.
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48335 Springer, G. E., and Watson, L. C.
LAND RESHAPING AND BIG MACHINES
SHAKE UP THE CHERRY BUSINESS. Soil Conserv. 34
(9):209-210. Apr. 1969. 1.6 So3S
Includes possible soil improvements as by-
product.

48336 Smith, W. L.
TEXAS COMMUNITY USES BOND ISSUE
FUNDS TO SPEED UP WATERSHED PLANNING. Soil
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East Kechel Watershed Project, chiefly for
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48337 Davison, V. E.
CHOOSE THE BIRDS YOU WANT TO FEED.
Soil Conserv. 34(9):212. Apr. 1969. 1.6 So3S

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SOIL SURVEY OF SCOTTS BLUFF COUNTY,
NEBRASKA, BY, D. A. YOST, D. L. BROWN, L. L. BULLER,
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STATUS OF WATERSHED PROTECTION (P.L.
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STATISTICAL REPORTING SERVICE

48340 U. S. D. A. Crop Reporting Board.
MILK PRODUCTION, DISPOSITION, AND IN-
COME; 1967-68. U. S. Crop Rep. Bd. Da 1/2, 15 p. Apr.
1969. 1.942 D22F22

48341 New York (State) Crop Reporting Service.
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operation with New York (State) Department of Agricul-
ture and Markets.

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Alabama Agricultural Experiment Station, Auburn

48342 Massingill, S. C., and White, M.
COMPARISON OF SEASONAL PRICE VARIATIONS OF SELECTED ALABAMA FARM COMMODITIES; FIVE- AND TEN-YEAR BASE PERIODS, Ala. Agr. Exp. Sta. Bull. 385, 46 p. Nov. 1968. 100 ALIS

48343 Ware, L. M., and Johnson, W. A.
POULTRY MANURE FOR VEGETABLE CROPS, EFFECTS AND VALUE. Ala. Agr. Exp. Sta. Bull. 386, 31 p. Dec. 1968. 100 ALIS

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BAMBOO GROWING IN ALABAMA. Ala. Agr. Exp. Sta. Bull. 387, 30 p. Ref. Dec. 1968. 100 ALIS

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INDEX TO PROCEEDINGS OF THE ANNUAL CONVENTIONS FOR THE GEORGIA-FLORIDA PECAN GROWERS ASSOCIATION, NUMBERS 15-27, 1907-1933; AND FOR THE SOUTHEASTERN PECAN GROWERS ASSOCIATION, NUMBERS 28-59, 1934-1966, PREPARED BY L. M. WATE. Ala. Agr. Exp. Sta. Circ. 164, 46 p. Dec. 1968. 100 ALIS

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Poultry housing.

Arkansas Agricultural Experiment Station, Fayetteville

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RURAL HOUSING CONDITIONS IN THE ARKANSAS, MISSOURI, AND OKLAHOMA OZARKS. Ark. Agr. Exp. Sta. Bull. 736, 30 p., map. Dec. 1968. 100 Ar42 U.S.D.A., cooperating.

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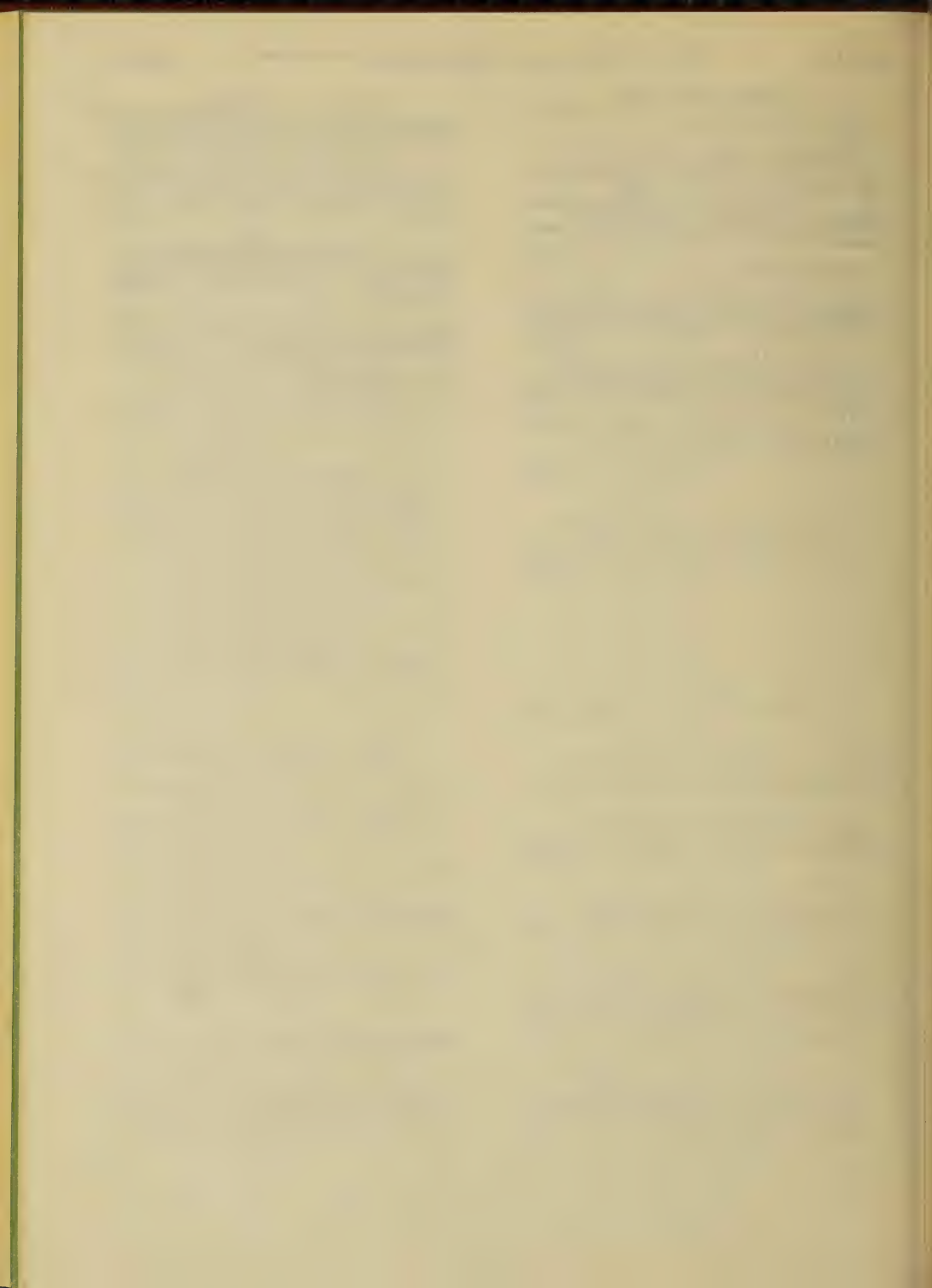
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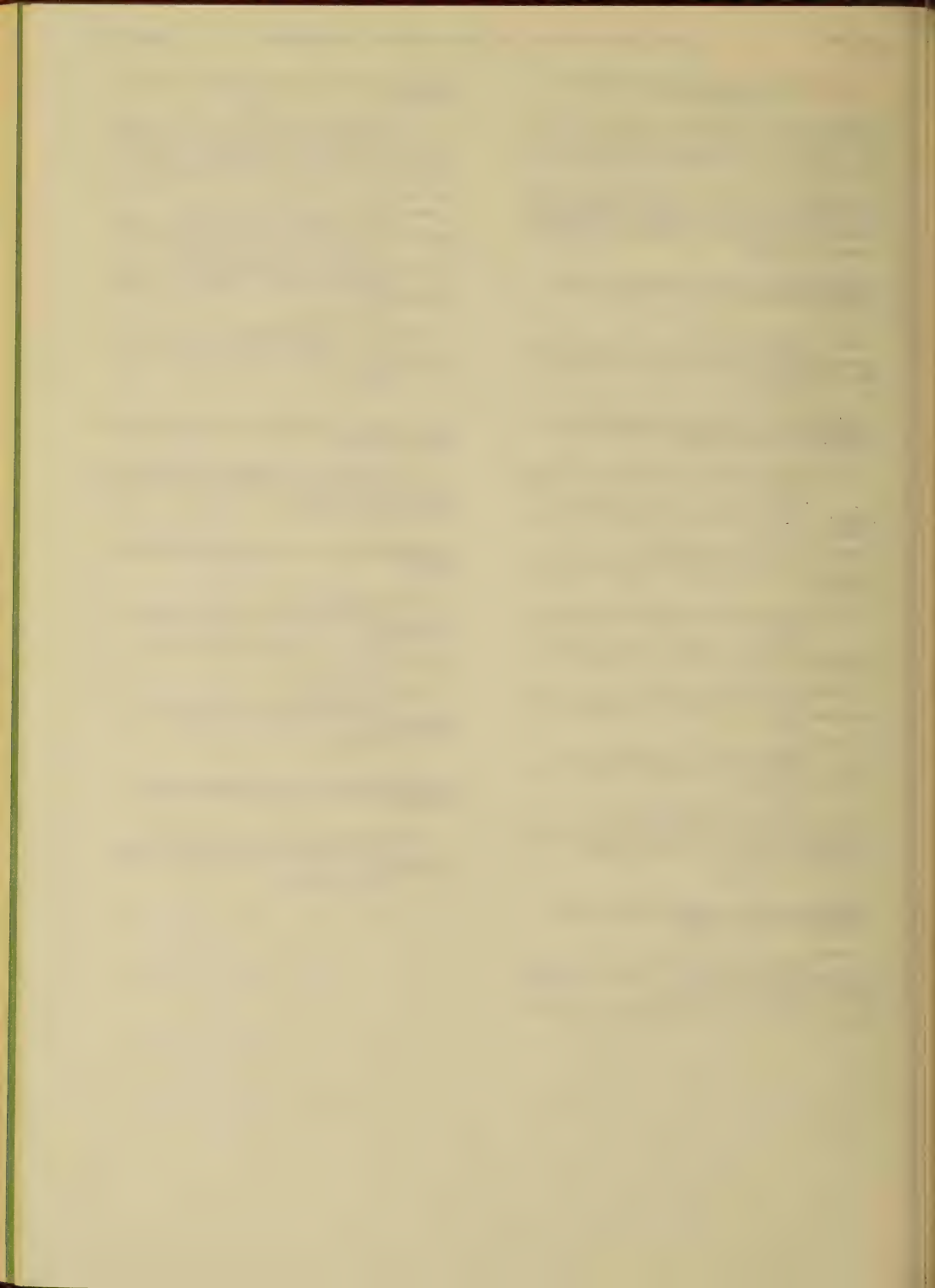
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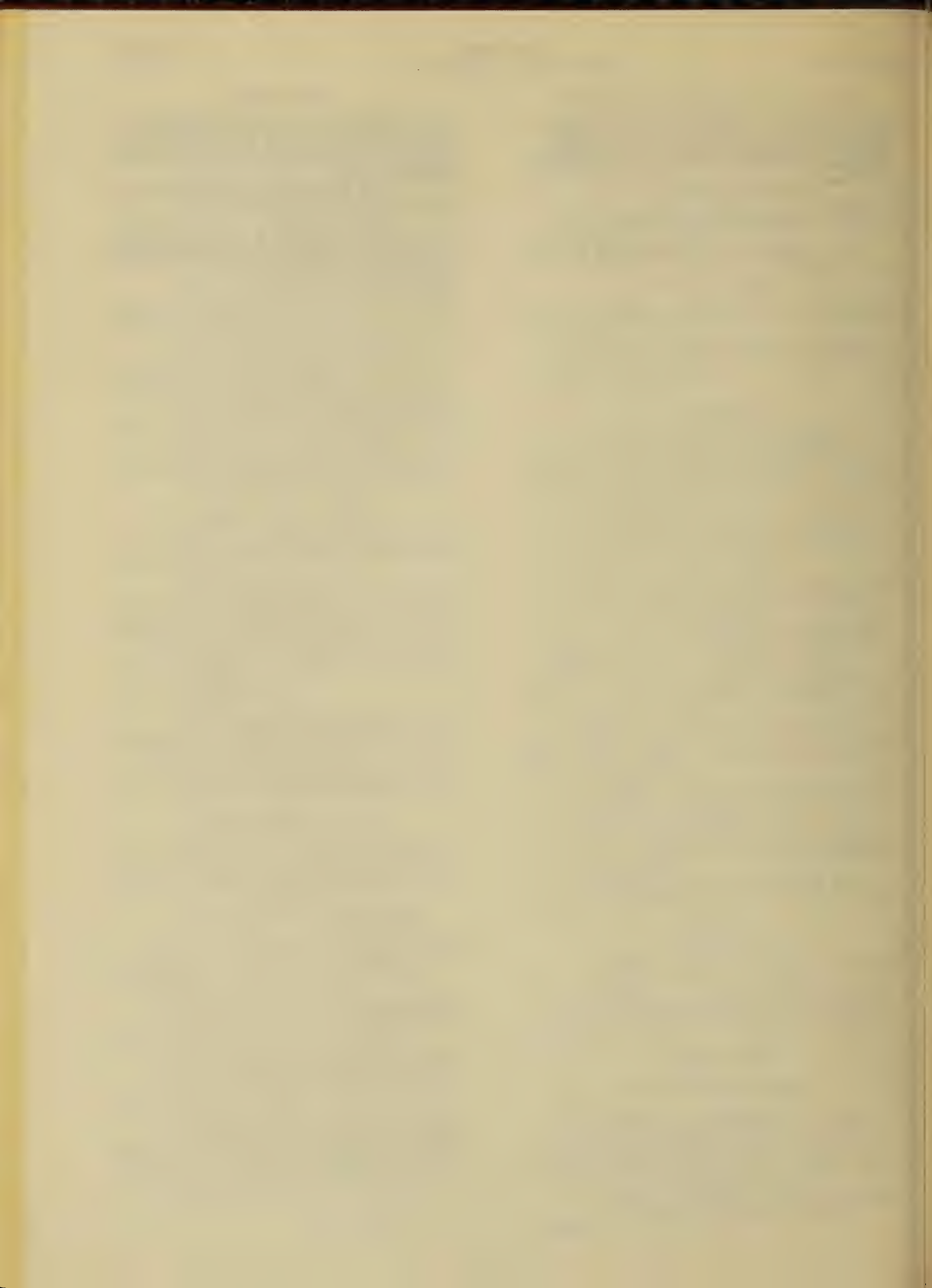
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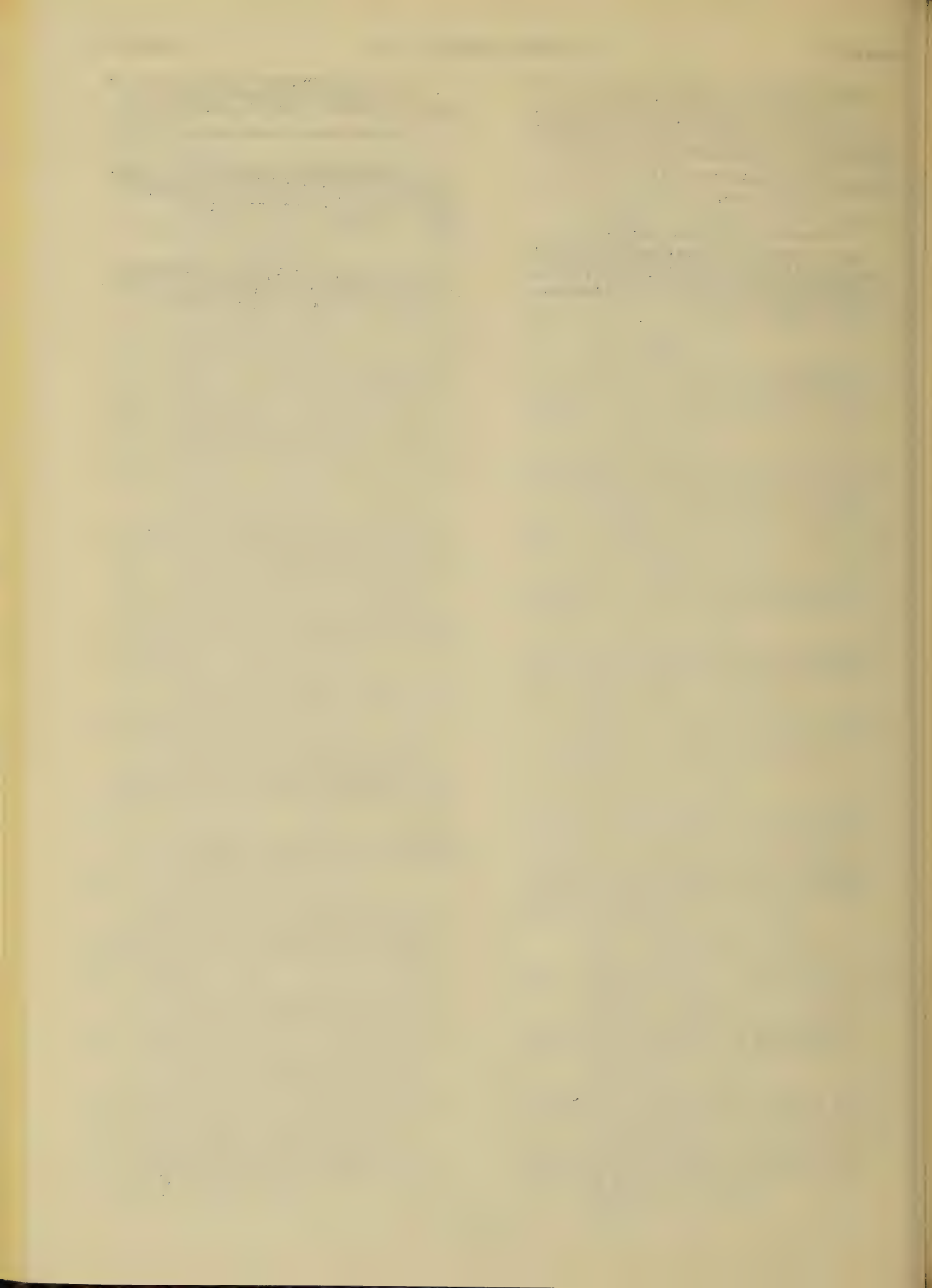
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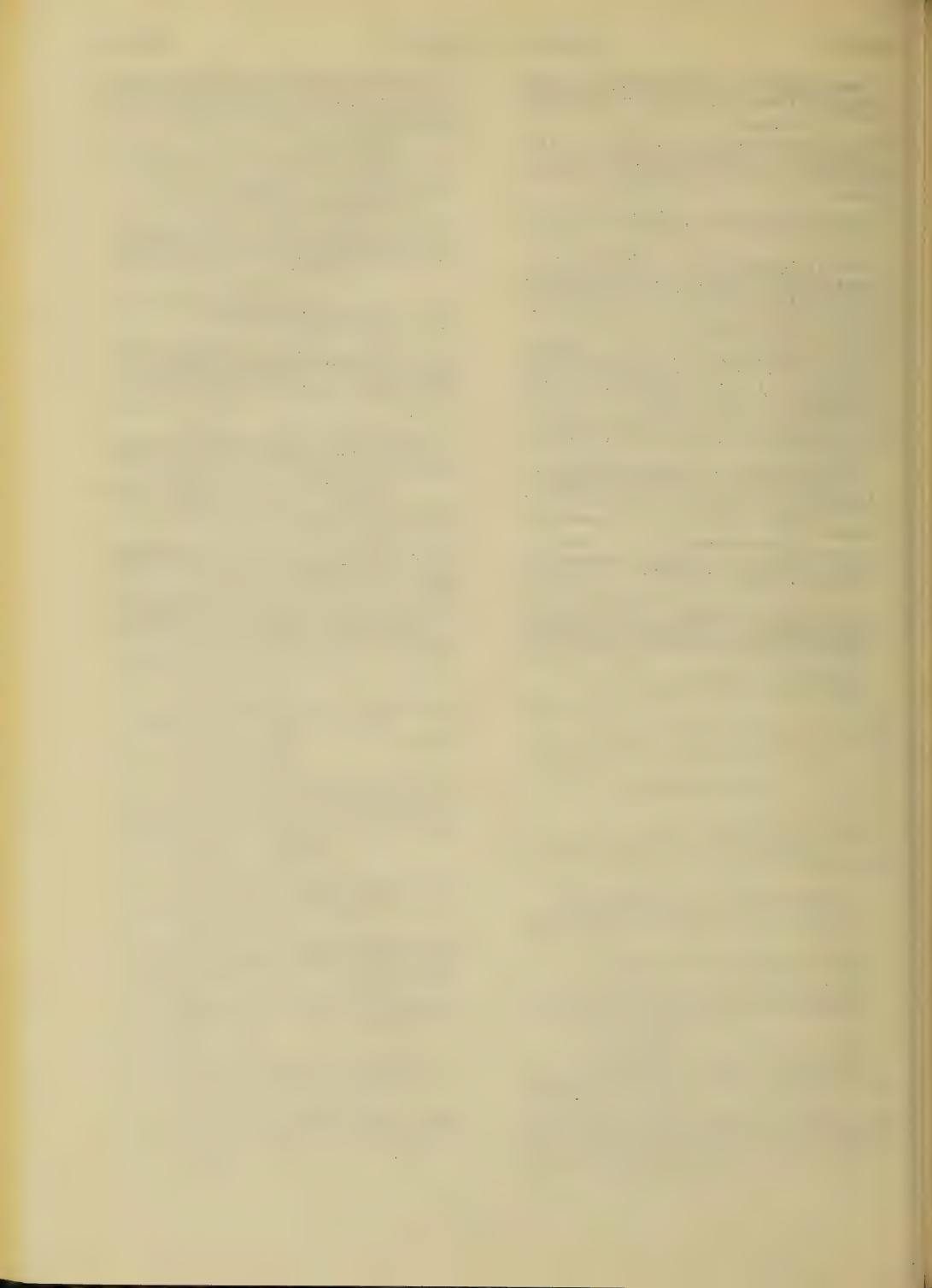
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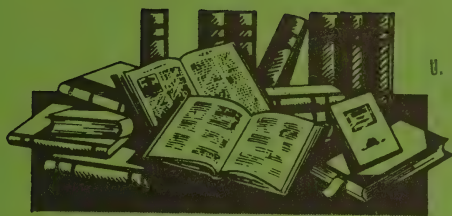
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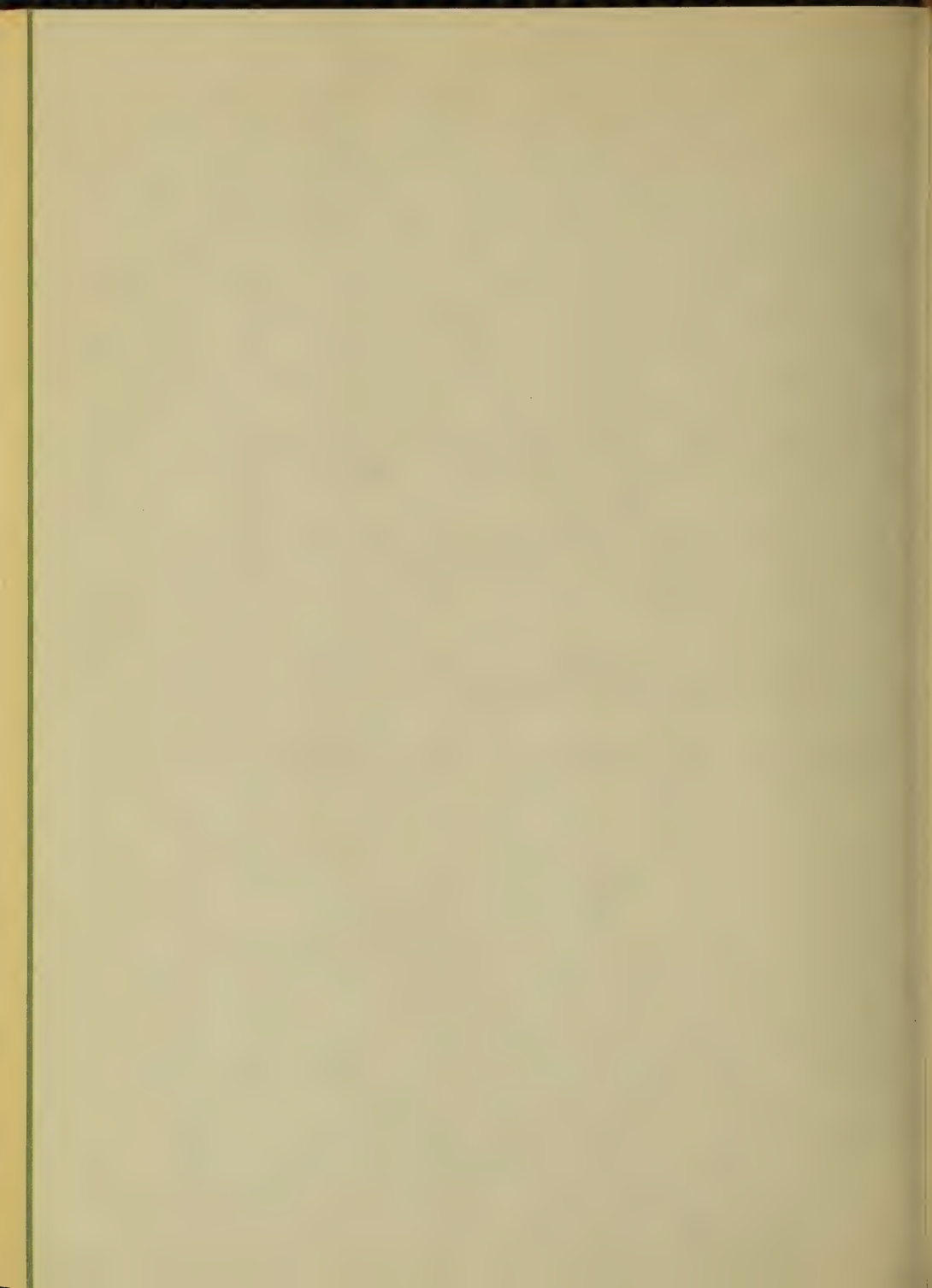


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The subject index to this issue of the Bibliography of Agriculture was prepared by permuting the subject entries originally assigned to each citation.

The purpose of permuting the entries was to obtain additional points of access to the information and to increase the specificity of information under each entry.

The above action is one more instance of the use of computers to increase the accessibility of information in the National Agricultural Library.



BIBLIOGRAPHY OF AGRICULTURE

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No. 10

The Bibliography of Agriculture is an index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Publications from any country are indexed, provided they are in one of the languages shown in CAPITALS at top of next column, or have summaries, abstracts, or translated titles in one of those languages.

Literature received more than one year after publication is generally not indexed. Exceptions are made for important scientific publications.

Indexing of articles on the processing of agricultural products is limited to those on primary processing.

Unsigned articles and those signed with pseudonyms or initials, editorials, letters to the editor, and columns appearing regularly, are omitted.

For more detailed coverage of the literature on pests and their control, please consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

FORMAT

The Bibliography is a classified arrangement of references under the following subjects:

- USDA Publications
- State Agricultural Experiment Station Publications
- State Agricultural Extension Service Publications
- Agricultural Economics and Rural Sociology
- Agricultural Products
- Animal Industry
- Engineering
- Entomology
- Food and Human Nutrition
- Forestry
- Plant Science
- Soils and Fertilizers
- Miscellaneous

The classified section is followed by the listing of:

- New Periodicals and Serials
- Translations
- Food and Agriculture Organization of the United Nations (FAO) Publications

The last section of each monthly issue, except November, is the Author and subject index for that issue.

For monographs the title is shown in the original language, followed by the English version. Titles of foreign language articles in serial publications are given in English only; the language of the text is shown in abbreviated form in parentheses at the end of the title. The following notations are used:

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Abbreviated names of the publications cited prior to July 1, 1964 are those from USDA Miscellaneous Publication 765-List of Serials Currently Received in the Library of the United States Department of Agriculture, July 1, 1957. Abbreviated names of all new periodical titles received after July 1, 1964 are taken from the American Standard for Periodical Title Abbreviations. As time allows, abbreviations set up for titles before that date will be converted to the new form.

The presence of the term "Ref." in the citation indicates that the article contains ten or more references to the literature.

Following each citation is the Library classification number which should be used when requesting loans or reproduction of articles.

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The Bibliography is published monthly. The December issue is devoted wholly to a subject index and the cumulated Personal and Organizational index to the preceding eleven issues.

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Abstracts are included with citations of U. S. D. A. publications, provided they are brief and are received with the original publication.

U. S. D. A. PUBLICATIONS

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Agricultural Economic Reports

- 54654 Perkinson, L. B.
STATISTICAL SUPPLEMENT TO AGRICULTURAL ECONOMIC REPORT NO. 108: AN ECONOMIC SURVEY OF THE NORTHERN LAKE STATES REGION. U. S. D. A. Agr. Econ. Rep. 108(sup.), 206 p. Ref. Feb. 1969. A281.9 Ag8A

Summary, p.III-IV.

- 54655 Williams, E. T.
FOREST TAXATION AND THE PRESERVATION OF RURAL VALUES IN NEW YORK. U. S. D. A. Agr. Econ. Rep. 150, 24 p. Apr. 1969. A281.9 Ag8A

Planning multiple use of forests.

- 54656 Flieger, C. J., and others.
SUPPLYING U.S. MARKETS WITH FRESH WINTER PRODUCE; CAPABILITIES OF U.S. AND MEXICAN PRODUCTION AREAS. U. S. D. A. Agr. Econ. Rep. 154, 159 p., map. Mar. 1969. A281.9 Ag8A

E. E. Gavett, L. A. Powell, and R. P. Jenkins, joint authors.

Study performed in response to Congressional inquiry by U. S. D. A. Economic Research Service; and, U. S. D. A. Foreign Agricultural Service.

Chiefly fruits and vegetables.

Summary, p.VIII.

- 54657 McElveen, J. V.
CHARACTERISTICS OF HUMAN RESOURCES IN THE RURAL SOUTHEAST COASTAL PLAIN WITH EMPHASIS ON THE POOR. U. S. D. A. Agr. Econ. Rep. 155, 90 p., map. Apr. 1969. A281.9 Ag8A

South Carolina Agricultural Experiment Station, cooperating.

Summary, p.III-IV.

- 54658 Coffman, G. W., and Scofield, W. H.
CORPORATIONS HAVING AGRICULTURAL OPERATIONS; PRELIMINARY REPORT. II. U. S. D. A. Agr. Econ. Rep. 156, 28 p. Apr. 1969. A281.9 Ag8A

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- 54659 Rapton, A.
A SOCIO-ECONOMIC PROFILE OF THE 1965 FARM WAGE FORCE. U. S. D. A. Agr. Econ. Rep. 157, 39 p. Apr. 1969. A281.9 Ag8A

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- 54660 Eichers, T., Jenkins, R., and Fox, A.
DDT USED IN FARM PRODUCTION. U. S. D. A. Agr. Econ. Rep. 158, 7 p., map. Apr. 1969. A281.9 Ag8A

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- 54661 U. S. D. A. Agricultural Research Service.
Crops Research Division.
SUGGESTED GUIDE FOR WEED CONTROL, 1969. U. S. D. A. Agr. Handbook 332, 70 p. Apr. 1969. 1 Ag84Ah

- 54662 Kushman, L. J., and Wright, F. S.
SWEETPOTATO STORAGE. U. S. D. A. Agr. Handbook 358, 35 p., map. Ref. Feb. 1969. 1 Ag84Ah

Agriculture Information Bulletins

- 54663 Hepting, G. H., and Fowler, M. E.
TREE DISEASES OF EASTERN FORESTS AND FARM WOODLANDS. U. S. D. A. Agr. Inform. Bull. 254, slightly rev., 48 p. Ref. Mar. 1969. 1 Ag84Ab

- 54664 U. S. D. A. Forest Service.
YOUR WATER SUPPLY AND FORESTS. U. S. D. A. Agr. Inform. Bull. 305, slightly rev., 17 p. Apr. 1969. 1 Ag84Ab

Chiefly watersheds.

- 54665 U. S. D. A. Consumer and Marketing Service.
Cotton Division.
SUMMARY OF COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1968. U. S. D. A. Agr. Inform. Bull. 335, 119 p., map. Apr. 1969. 1 Ag84Ab

Farmers' Bulletins

- 54666 Anderson, W. L.
MAKING LAND PRODUCE USEFUL WILDLIFE. U. S. D. A. Farmers' Bull. 2035, slightly rev., 29 p. May 1969. 1 Ag84F

Includes recreational use.

- 54667 U. S. D. A. Agricultural Research Service.
Animal Husbandry Research Division.
FARM POULTRY MANAGEMENT. U. S. D. A. Farmers' Bull. 2197, 32 p. Ref. Apr. 1969. 1 Ag84F

Home and Garden Bulletins

- 54668 U. S. D. A. Agricultural Research Service.
Entomology Research Division.
ANTS IN THE HOME AND GARDEN; HOW TO CONTROL THEM. U. S. D. A. Home Gard. Bull. 28, rev., 8 p. Apr. 1969. 1 Ag84Hg

- 54669 Reid, W. J., and Cuthbert, F. P.
CABBAGE INSECTS; HOW TO CONTROL THEM IN THE HOME GARDEN. U. S. D. A. Home Gard. Bull. 44, slightly rev., 8 p., folder. Mar. 1969. 1 Ag84Hg

Chemical.

- 54670 U. S. D. A. Agricultural Research Service.
Human Nutrition Research Division.
HOME CANNING OF MEAT AND POULTRY. U. S. D. A. Home Gard. Bull. 106, slightly rev., 24 p. Apr. 1969. 1 Ag84Hg

- 54671 U. S. D. A. Agricultural Research Service.
Entomology Research Division.
CONTROLLING WASPS. U. S. D. A. Home
Gard. Bull. 122, slightly rev., 8 p. Apr. 1969. 1 Ag84Hg

- 54672 U. S. D. A. Agricultural Research Service.
Human Nutrition Research Division.
APPLES IN APPEALING WAYS. U. S. D. A.
Home Gard. Bull. 161, 16 p. Apr. 1969. 1 Ag84Hg
Includes recipes.

- 54673 U. S. D. A. Consumer and Marketing Service.
HOW TO BUY MEAT FOR YOUR FREEZER.
U. S. D. A. Home Gard. Bull. 166, 28 p. Apr. 1969.
1 Ag84Hg
Cuts and grades.

Leaflets

- 54674 U. S. D. A. Agricultural Research Service.
Agricultural Engineering Research Division.
INFRARED LAMPS, THEIR USE IN BROODING
PIGS. U. S. D. A. Leaflet 381, slightly rev., 4 p. Mar. 1969.
1 Ag84L

Marketing Research Reports

- 54675 Risse, L. A.
COST AND PERFORMANCE OF POLYSTYRENE
BOXES FOR SHIPPING ICE-PACKED POULTRY.
U. S. D. A. Marketing Res. Rep. 833, 8 p. Jan. 1969.
1 Ag84Mr

Polystyrene foam boxes were developed and tested for shipping ice-packed poultry. Six test truck shipments were made. Although polystyrene foam boxes cost more than wooden boxes, a potential net saving of approximately 4.2 cents per hundredweight can be achieved by packing and shipping ice-packed poultry in polystyrene boxes. This saving results from lower costs of transport, lower costs of package ice, and lower costs of labor for packing and loading polystyrene boxes than for wooden boxes. The lighter weight of the polystyrene boxes and the reduced amount of package ice permits loading more poultry in a truck before the truck reaches legal load limits.

Warehouse receivers and retail butchers liked the polystyrene boxes because they were sanitary and easy to handle, to open, and to empty. But the polystyrene boxes were not so sturdy as the wirebound boxes. Sometimes they broke during transit and when they were not handled carefully.

- 54676 Harris, C.
AN EGG GRADING AND PROCESSING PLANT
FOR HIGH-VOLUME PRODUCTION. U. S. D. A. Marketing
Res. Rep. 837, 18 p. Feb. 1969. 1 Ag84Mr

- 54677 Burke, R. L.
CHARACTERISTICS OF BEEF CATTLE FEED-
LOTS; CALIFORNIA, COLORADO, WESTERN CORN
BELT. U. S. D. A. Marketing Res. Rep. 840, 54 p. 1969.
1 Ag84Mr

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- 54678 Thompson, T. L., Foster, G. H., and Peart,
R. M.
COMPARISON OF CONCURRENT-FLOW,
CROSSFLOW, AND COUNTERFLOW GRAIN DRYING
METHODS. U. S. D. A. Marketing Res. Rep. 841, 23 p.
Ref. Apr. 1969. 1 Ag84Mr
Indiana Agricultural Experiment Station, co-
operating.

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- 54679 Ulrey, I. W.
THE ECONOMICS OF FARM PRODUCTS
TRANSPORTATION. U. S. D. A. Marketing Res. Rep.
843, 95 p., map. Mar. 1969. 1 Ag84Mr
Various statistics; includes legislation.
Summary, p. V-VI.

- 54680 Wilmot, C. A., Shaw, D. L., and Looney, Z. M.
COTTON GIN OPERATING COSTS IN WEST
TEXAS; 1966-67 AND 1967-68. U. S. D. A. Marketing
Res. Rep. 844, 4 p. Mar. 1969. 1 Ag84Mr

Miscellaneous Publications

- 54691 U. S. D. A. Statistical Reporting Service.
THE STORY OF U. S. AGRICULTURAL ESTI-
MATES. U. S. D. A. Misc. Publ. 1088, 137 p. Apr. 1969.
1 Ag84M

- 54682 U. S. D. A. Economic Research Service.
FOOD COSTS; RETAIL, FARM, MARKETING.
U. S. D. A. Misc. Publ. 1133, 15 p. Feb. 1969. 1 Ag84M
Compares costs, prices, and farmer's share.

- 54683 U. S. D. A. Agricultural Research Service.
FARROWING AND GROWING BUILDING FOR
HOGS; COOPERATIVE FARM BUILDING PLAN NO.
6032. U. S. D. A. Misc. Publ. 1134, 2 p. May 1969.
1 Ag84M

Designs.

- 54684 U. S. D. A. Agricultural Research Service.
FREE-STALL BARN FOR CATTLE; COOPER-
ATIVE FARM BUILDING PLAN NO. 6050. U. S. D. A.
Misc. Publ. 1135, 2 p. May 1969. 1 Ag84M
Designs.

- 54685 U. S. D. A. Agricultural Research Service.
CORRAL WITH CURVED CHUTE FOR BEEF
CATTLE; COOPERATIVE FARM BUILDING PLAN NO.
6049. U. S. D. A. Misc. Publ. 1136, 2 p. May 1969.
1 Ag84M

Designs.

- 54686 U. S. D. A. Agricultural Research Service.
FREE-STALL BARN 44 AND 48 FEET WIDE;
COOPERATIVE FARM BUILDING PLAN NO. 6042.
U. S. D. A. Misc. Publ. 1137, 2 p. May 1969. 1 Ag84M

- 54687 U. S. D. A. Agricultural Research Service.
SHEEP CORRAL FOR 250 HEAD; COOPER-
ATIVE FARM BUILDING PLAN NO. 6043. U. S. D. A.
Misc. Publ. 1139, 2 p. May 1969. 1 Ag84M
Designs.

- 54688 U. S. D. A. Economic Research Service. Mar-
keting Economics Division.
SYNTHETICS AND SUBSTITUTES FOR AGRICUL-
TURAL PRODUCTS; A COMPENDIUM. U. S. D. A.
Misc. Publ. 1141, 85 p. Apr. 1969. 1 Ag84M
Includes effects on the market.

- 54689 Corkern, R. S., and Eley, C.
MANMADE SUBSTITUTES IN THE FIBERS
MARKET. U. S. D. A. Misc. Publ. 1141:4-15. Apr. 1969.
1 Ag84M

Summary, p. 15.

- 54690 Moede, H. H.
SUBSTITUTE DAIRY PRODUCTS. U. S. D. A.
Misc. Publ. 1141:16-23. Apr. 1969. 1 Ag84M
Effects on the market.
Summary, p. 23.

- 54691 Rollag, N. L., Vosloh, C. J., and Corkern, R. S.
SYNTHETICS AND SUBSTITUTES FOR CERE-
AL PRODUCTS. U. S. D. A. Misc. Publ. 1141:24-33.
Ref. Apr. 1969. 1 Ag84M
Effects on the market.
Summary, p. 32.

- 54692 Moede, H. H., and others.
MEAT AND POULTRY SUBSTITUTES. U. S.
D. A. Misc. Publ. 1141:34-40. Apr. 1969. 1 Ag84M
G. B. Rogers, D. B. Agnew, and L. Dueser,
joint authors.

Three general forms of soy proteins are used in foods: Soy flour and grits, soy concentrates, and soy isolates. Each of these forms may be used as a component in the formulation of comminuted meat, health, and diet food products. Most food uses of these proteins are for functional as well as nutritional purposes. Federal standards of identity limit the level of use in comminuted meat products, and meat analog products must be labeled as to composition. As yet, it is too early to evaluate the complete impact these synthetic products will have on the meat and poultry market, which may be the largest potential food market for soy protein.

- 54693 Ballinger, R. A.
SUGAR SUBSTITUTES. U. S. D. A. Misc. Publ.
1141:41-48. Apr. 1969. 1 Ag84M
Summary, p. 47-48.

- 54694 Thompson, J. W.
SUBSTITUTES FOR LEATHER. U. S. D. A. Misc. Publ. 1141:49-52. Apr. 1969. 1 Ag84M
Domestic demand for cattle hides has been relatively constant at 22 to 24 million pieces annually since 1958, but it is expected to decline to 21 million pieces by 1980. Currently, there are 69 leather substitutes available, all but 17 of which sell for less than leather. Most of the substitutes have a property superior to leather such as lighter weight, scuff resistance, or dye fastness. Domestic cattle hide availability is expected to increase from 34 million pieces in 1965 to 46 million in 1980 with a hide surplus of 27 million pieces. Because of substitute materials at lower prices, exporting large numbers of hides does not appear feasible. Thus, expanding existing markets for leather and finding new and non-conventional outlets for hides, as in food uses, appear to be the most promising means of improving markets for hides.
- 54695 Johnson, C. E.
SYNTHETIC CITRUS DRINKS. U. S. D. A. Misc. Publ. 1141:53-59. Apr. 1969. 1 Ag84M
Effects on the market.
Summary, p.59.
- 54696 Doty, H. O., and Lawler, J. V.
SYNTHETICS AND SUBSTITUTES FOR OIL-SEED PRODUCTS. U. S. D. A. Misc. Publ. 1141:60-81. Ref. Apr. 1969. 1 Ag84M
Consumption.
Summary, p.79-80.
- 54697 Corkern, R. S.
PROTEIN FROM PETROLEUM. U. S. D. A. Misc. Publ. 1141:82-85. Ref. Apr. 1969. 1 Ag84M
The use of single-cell organisms to synthesize protein from petroleum fractions is technically feasible. Pilot scale production and trial feedings have been accomplished in the United States and several foreign countries. The first market visualized for protein from petroleum is the animal feed industry. In this market, protein from petroleum must compete on a cost basis with protein from agricultural products such as soybean meals. The impact of the production of protein from petroleum on domestic oilseed meal markets will be limited until production costs are reduced and extensive toxicity testing has been completed.

Production Research Reports

- 54698 Shaw, C. S.
A METHOD OF DETERMINING THE SURFACE AREA OF COTTONSEED. U. S. D. A. Prod. Res. Rep. 105,7 p. Mar. 1969. A281.9 Ag8
Related to ginning performance.
Summary, p.7.

Program Aid

- 54699 U. S. D. A. Agricultural Research Service.
Plant Pest Control Division.
WATCH FOR THE CEREAL LEAF BEETLE [OULEMA MELANOPUS]. U. S. D. A. PA-550, slightly rev., 4 p. Dec. 1968. 1 Ag84Pro
- 54700 U. S. D. A. Federal Extension Service.
Elementos nutritivos esenciales; alimentos para familias juvenes [ESSENTIAL NUTRIENTS; FOOD FOR YOUNG FAMILIES]. U. S. D. A. PA-691-S,4 p. Apr. 1969. 1 Ag84Pro
- 54701 U. S. D. A. Federal Extension Service.
Como alimentar a los ninos; alimentos para familias juvenes [FEEDING YOUR CHILDREN; FOOD FOR YOUNG FAMILIES]. U. S. D. A. PA-693-S,4 p. Mar. 1969. 1 Ag84Pro
- 54702 U. S. D. A. Consumer and Marketing Service.
HOW TO USE USDA GRADES IN BUYING FOOD. U. S. D. A. PA-708, slightly rev., 12 p. Mar. 1969. 1 Ag84Pro
- 54703 U. S. D. A. Agricultural Stabilization and Conservation Service.
CERTIFYING YOUR PROGRAM ACRES. U. S. D. A. PA-798, rev., 4 p. Mar. 1969. 1 Ag84Pro
Comply with legislation.
- 54704 Weitzell, E. C.
PLANNING FOR RURAL INDUSTRY. U. S. D. A. PA-894, 29 p. Apr. 1969. 1 Ag84Pro
A guide for Extension educational programs designed to achieve greater understanding of the factors involved in developing and expanding rural industries.

- 54705 U. S. D. A. Federal Extension Service.
COUNTY AGENTS IN VIETNAM. U. S. D. A. PA-896, 16 p., map. Apr. 1969. 1 Ag84Pro
- 54706 U. S. D. A. Agricultural Stabilization and Conservation Service.
SUGARCANE WAGE REQUIREMENTS FOR FLORIDA; EFFECTIVE NOVEMBER 18, 1968, AND UNTIL FURTHER NOTICE. U. S. D. A. PA-897, 5 p., folder. Nov. 1968. 1 Ag84Pro
- 54707 U. S. D. A. Agricultural Stabilization and Conservation Service.
THE APPALACHIAN LAND STABILIZATION AND CONSERVATION PROGRAM. U. S. D. A. PA-898, 12 p., map. Mar. 1969. 1 Ag84Pro
Soil and water conservation policies aid agricultural growth.
- 54708 U. S. D. A. Agricultural Stabilization and Conservation Service.
THE FEED GRAIN PROGRAM, 1969. U. S. D. A. PA-904, 4 p. Jan. 1969. 1 Ag84Pro
- 54709 U. S. D. A. Consumer and Marketing Service.
FOOD STAMPS TO END HUNGER. U. S. D. A. PA-911, 7 p. Apr. 1969. 1 Ag84Pro

Statistical Bulletins

- 54710 Van Dress, M. G., and Freund, W. H.
THE FOOD SERVICE INDUSTRY; ITS STRUCTURE AND CHARACTERISTICS, 1966. U. S. D. A. Statist. Bull. 416, 370 p. 1968. 1 Ag84St
- 54711 U. S. D. A. Consumer and Marketing Service.
DAIRY MARKET STATISTICS, 1968; ANNUAL SUMMARY OF MARKET STATISTICS. U. S. D. A. Statist. Bull. 434, 19 p. Apr. 1969. 1 Ag84St
- 54712 U. S. D. A. Consumer and Marketing Service.
Tobacco Division.
ANNUAL REPORT ON TOBACCO STATISTICS, 1968. U. S. D. A. Statist. Bull. 435, 55 p., map. Apr. 1969. 1 Ag84St

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- 54713 Fleming, W. E.
ATTRACTANTS FOR THE JAPANESE BEETLE [POPILLIA JAPONICA]. U. S. D. A. Tech. Bull. 1399, 87 p. Feb. 1969. 1 Ag84Te
Bibliography, p.83-87.
- 54714 Rogler, G. A., and Lorenz, R. J.
PASTURE PRODUCTIVITY OF CRESTED WHEATGRASS [ACROPYRON DESERTORUM] AS INFLUENCED BY NITROGEN FERTILIZATION AND ALFALFA. U. S. D. A. Tech. Bull. 1402, 33 p. Ref. Apr. 1969. 1 Ag84Te

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- 54715 Doss, M. A., and Farr, M. M.
INDEX-CATALOGUE OF MEDICAL AND VETERINARY ZOOLOGY. SUBJECTS: TREMATODA AND TREMATODE DISEASES. 11. HOSTS, GENERA A-L. Washington, 1969. 377 p. A241.73 Ag3
Published by U. S. D. A.
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INDEX-CATALOGUE OF MEDICAL AND VETERINARY ZOOLOGY. SUBJECTS: TREMATODA AND TREMATODE DISEASES. 12. HOSTS, GENERA M-Z. Washington, 1969. p.379-694. A241.73 Ag3
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- 54717 Joint Committee of the Department of Agriculture and the National Association of State Universities and Land-Grant Colleges on Education for Government Service, 1968.
ANNUAL REPORT. Washington, 1968. 22 p. 249.39 L22

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- 54718 U. S. D. A. Agricultural Stabilization and Conservation Committee (North Carolina).
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- 54719 U. S. D. A. Agricultural Stabilization and Conservation Committee (Tennessee). ANNUAL REPORT, 1968. n. p., 1969? 35 p. A281.9 St19
- 54720 U. S. D. A. Agricultural Stabilization and Conservation Committee (Virginia). 1968 ANNUAL REPORT. Richmond, 1968. 134 p. A281.9 St17

AGRICULTURAL RESEARCH SERVICE

- 54721 Trujillo, E. E., and Obrero, F. P. ANTHRACNOSE OF PAPAYA LEAVES CAUSED BY COLLETOTRICHUM GLOEOPORIOIDES. Plant Dis. Rep. 53(5):323-325. May 1969. 1.9 P69P
Colletotrichum gloeoporioides was found to cause a leaf spot of papaya which closely resembled necrotic symptoms of magnesium deficiency. Disease severity was variable within the Solo variety of papaya but also increased with higher levels of soil pH. These two factors were the determinants of disease severity during wet periods favorable for disease development.
- 54722 Wysong, D. S., and Kerr, E. HYBRID CORN YIELD REDUCTION BY STALK AND ROOT ROT IN NEBRASKA. Plant Dis. Rep. 53(5):326-329. May 1969. 1.9 P69P
Yield losses attributed to corn stalk and root rot were determined in 48 farmers' fields in 18 counties in Nebraska during the fall of 1968. Differences in shelled grain weight between standing-diseased and adjacent healthy plants were used to calculate yield reductions on an individual diseased plant basis. Statistically significant losses averaged 34.97 per cent in 420 of 480 paired comparisons and ranged from 12.3 per cent to 51.3 per cent in the fields sampled. By using these data in relation to the incidence of disease, statewide yield losses were estimated to be 11.04 per cent. Based on the current 7-year average for corn grain production, Nebraska farmers would have realized an increase of 7.9 bushels more per acre, valued at approximately 39,947,770 to the State's Economy, in the absence of stalk rot.
- 54723 Palmiter, D. H. A TRANSMISSIBLE FRUIT-DEPRESSION DISEASE OF MCINTOSH APPLES. Plant Dis. Rep. 53(5):329-332. May 1969. 1.9 P69P
An apparently new virus disease causing a foliage mosaic and a serious fruit deformity in the form of irregular depressions on McIntosh apples as described. The reactions of several other apple varieties to graft inoculations of this isolate differed from those of two apple mosaic isolates. McIntosh depression virus is suggested as the common name for this disease.
- 54724 Roistacher, C. N., Calavan, E. C., and Blue, R. L. CITRUS EXOCORTIS VIRUS—CHEMICAL INACTIVATION ON TOOLS, TOLERANCE TO HEAT AND SEPARATION OF ISOLATES. Plant Dis. Rep. 53(5):333-336. May 1969. 1.9 P69P
Exocortis virus was readily transmitted by contaminated knife blades and fingers. Mechanical transmission by knife cuts was prevented by a 1-second dip of the contaminated blades in diluted household bleach or a solution of 2 per cent sodium hydroxide plus 2 per cent formalin. Heating contaminated blades for 4 to 6 seconds in the flame of a propane torch or flaming blades dipped in 95 per cent alcohol failed to inactivate the virus. A 1-second dip in the following chemical suspensions or solutions also failed to prevent transmission: 20 per cent phisohex, 3 per cent formalin, 2 per cent trisodium phosphate cleaner, 10 per cent borax, 1 per cent lysol and 95 per cent ethyl alcohol. A 20 per cent household bleach solution (containing about 1 per cent sodium hypochlorite) is recommended as a disinfectant for pruning and grafting tools. The corrosive action of the bleach on tools was avoided by dipping in a mixture of vinegar, water, and emulsifiable oil. Mild isolates of exocortis virus were separated from severe isolates by knife transmissions.
- 54725 Schwarz, R. E., and McClean, A. P. D. GUM-POCKET, A NEW VIRUS-LIKE DISEASE OF PONCIRUS TRIFOLIATA. Plant Dis. Rep. 53(5):336-339. May 1969. 1.9 P69P
A new disease characterized by gum pockets and malformation of the trunks was found in trifoliolate orange rootstocks under sweet orange scions. The disease, which leads to severe stunting and decline within 5 years, is thought to be of virus origin. Its symptoms are different from those produced in the trifoliolate orange by the other citrus viruses.
- 54726 Cole, H., and others. MAIZE DWARF MOSAIC; EFFECTS OF VIRUS STRAINS A AND B ON YIELD AND INTERACTION EFFECTS OF ATRAZINE AND THE VIRUS ON YIELDS. Plant Dis. Rep. 53(5):340-344. May 1969. 1.9 P69P
D. R. MacKenzie, J. S. Boyle, and C. D. Ergegovich, joint authors.
Atrazine for possible diminishing of yield losses. Abstract, p.340.
- 54727 Scheifele, G. L. EFFECTS OF EARLY AND LATE INOCULATION OF MAIZE DWARF MOSAIC VIRUS STRAIN A AND B ON SHELLED GRAIN YIELDS OF SUSCEPTIBLE AND RESISTANT MAIZE SEGREGATES OF A THREE-WAY HYBRID. Plant Dis. Rep. 53(5):345-347. May 1969. 1.9 P69P
Abstract, p.345.
- 54728 Berkenkamp, B., Folkins, L., and Meeres, J. FLORAL INFECTION BY ASCOCHYTA CAULICOLA (GRAY STEEM CANKER) AND VARIETAL REACTION OF SWEET CLOVER. Plant Dis. Rep. 53(5):348-349. May 1969. 1.9 P69P
In July 1968 a striking floral manifestation of *Ascochyta caulicola* was observed on sweet clover. The seed yield was reduced to 5 per cent of that expected in a susceptible variety. Disease ratings on varieties were closely correlated with percentage of seed carrying the fungus.
- 54729 Prasad, K., and Weigle, J. L. RESISTANCE TO RHIZOCTONIA SOLANI IN PHASEOLUS VULGARIS (SNAP BEAN). Plant Dis. Rep. 53(5):350-352. May 1969. 1.9 P69P
Among several Plant Introduction accessions and bean cultivars evaluated for resistance to *Rhizoctonia solani*, Venezuela 54 and PI 165426 had the highest level of resistance. Valentine was rated as the most resistant cultivar. Several factors appear to be associated with the resistant response to the pathogen. Resistant lines had purple hypocotyls and black seed coats that adhered tightly to the cotyledon without cracking readily. Post infectious studies indicate that low amino-acid content in the hypocotyl of resistant hosts may be partly responsible for the poor growth of the pathogen. Pathogenesis also appeared to be retarded by the production of secondary substances in resistant hosts. There was no indication of root inhibition in inoculated plants.
- 54730 Singh, D. V., Khanna, B. M., and Khanna, A. N. FIELD EVALUATION OF SOME FUNGICIDES FOR CONTROL OF LEAF AND STEM RUSTS OF WHEAT. Plant Dis. Rep. 53(5):352-355. Ref. May 1969. 1.9 P69P
Field trials were conducted for 3 years with eight fungicides for the control of leaf and stem rusts of wheat at Kanpur, India. Both rusts were effectively controlled by five sprays of nickel sulfate + maneb and maneb at the rate of 2.5 lb/acre per spray, with corresponding increase in yield. Other fungicides tested also reduced intensity of rusts significantly but were inferior to the two fungicides mentioned. The highest net profit per hectare was obtained by application of maneb.
- 54731 Holcomb, G. E., and Motsinger, R. E. FUSARIUM [TRICINCTUM POAE] FLOWER AND BUD ROT OF CHRYSANTHEMUM FOUND IN LOUISIANA. Plant Dis. Rep. 53(5):356. May 1969. 1.9 P69P
- 54732 McGrath, W. T., and Patton, R. F. THE RANGE OF WESTERN GALL RUST IN WISCONSIN. Plant Dis. Rep. 53(5):357-359. Ref. May 1969. 1.9 P69P
Plus banksiana.
The range of *Peridermium harknessii* on jack pine in Wisconsin was determined by identification of spore samples on the basis of aeciospore germination and germ tube development. At present the rust is distributed as a peninsular or tongue-like extension jutting southward from the Upper Peninsula of Michigan into Vilas, Oneida, and Lincoln counties in northern Wisconsin.

- 54733 Govindu, H. C.
OCCURRENCE OF EPHELIS ON RICE VARIETY IR-8 AND COTTON GRASS IN INDIA. Plant Dis. Rep. 53(5):360. May 1969. 1.9 P69P
Ephelis oryzae Syd. is reported on rice variety IR-8. Imperata cylindrica is also listed as one of the hosts for Ephelis from India.
- 54734 Yaranguntaiah, R. C., and Keshavamurthy, K. V.
TRANSMISSION OF THE VIRUS COMPONENT OF THE RAGI (ELEUSINE CORACANA) DISEASE-COMPLEX IN MYSORE, INDIA. Plant Dis. Rep. 53(5):361-363. May 1969. 1.9 P69P
The virus component of the disease-complex of ragi (Eleusine coracana), which was previously reported to be transmissible by sap, is now found to be transmissible by the insect vector, delphacid, Sogatella sp., but not by sap or any of the three species of aphids tested.
- 54735 Ben-Arie, R., and Guefat-Reich, S.
POSTHARVEST HEAT TREATMENT TO CONTROL STORAGE ROTTS OF SPADONA PEARS. Plant Dis. Rep. 53(5):363-367. Ref. May 1969. 1.9 P69P
Postharvest hot-water treatment at 47°C for 7 minutes effectively controlled Alternaria tenuis rot in inoculated Spadona pears, but was not effective against rots caused by Penicillium expansum and Botrytis cinerea. The treatment enhanced the development of P. expansum on noninoculated fruits during 6 months' storage. Treatment at 50° had some effect against P. expansum and B. cinerea, but caused skin injuries to the fruit.
- 54736 Morrison, R. H., and French, D. W.
DIRECT ISOLATION OF CYLINDROCLADIUM FLORIDANUM FROM SOIL. Plant Dis. Rep. 53(5):367-369. May 1969. 1.9 P69P
Coniferae.
Viable microsclerotia of Cylindrocladium floridanum were recovered from soil from a naturally infested forest tree nursery in Minnesota, but by using soil sieves to concentrate the propagules, C. floridanum was also successfully isolated directly from the screened soil by a soil dilution plate method. Colonies of C. floridanum on the dilution plates originated from viable microsclerotia occurring as essentially free units in the soil.
- 54737 Van Sickle, G. A.
OCCURRENCE OF CRONARTIUM COMP-TONIAE IN THE MARITIME PROVINCES. Plant Dis. Rep. 53(5):369-371. Ref. May 1969. 1.9 P69P
Sweetfern blister rust, caused by Cronartium complanatum Arth., is reported on associated exotic or native hard pines and sweetfern or sweet gale in the Maritime Provinces of Canada. In a shortleaf pine plantation, 82 per cent of the seedlings were infected, 71 per cent of which were dead. In lodgepole pine and jack pine plantations, 34 and 12 per cent, respectively, of the stems were infected. The occasional occurrence of a stem rust caused by Peridermium stalactiforme Arth. and Kern is also indicated by natural infections of cove-weat.
- 54738 Holmes, J., and Rich, A. E.
FROGEYE LEAFSPOT AND APPLE BLACK ROT CONTROL BY FUNGICIDE SPRAY TREATMENT IN NEW HAMPSHIRE. Plant Dis. Rep. 53(5):372-375. Ref. May 1969. 1.9 P69P
Frogeye leafspot and black rot of apples is a fungus disease caused by Physalospora obtusa (Schw.) Cooke. Frogeye leafspot was reduced significantly by folpet, captan, maneb, thiram and ferbam (in descending order of effectiveness) during three years of field tests. Fruit rot was only partially controlled in these trials. Folpet and captan provided consistently good control of both frogeye leafspot and apple rot. N-(1,1,2,2-tetrachloroethyl)sulfenyl)-cis-cyclohexene-1,2-dicarboximide, which was used only in 1968, appeared to be promising for further tests because it significantly reduced frogeye leafspot and completely controlled apple rot.
- 54739 Green, R. J.
CONTROL OF RUST IN SPEARMINT ESTABLISHED WITH TRANSPLANTS. Plant Dis. Rep. 53(5):376-377. May 1969. 1.9 P69P
Effective control was demonstrated of the rust disease of Scotch spearmint (Mentha cardiaca), caused by Puccinia menthae Pers., by preplant dip of transplants in dichlorone. Rust development was limited throughout the season in plantings from treated transplants and these plantings were more vigorous the following spring.
- 54740 Hosford, R. M., and others.
STUDIES OF LEPTOSPHAERIA AVENARIA F. SP. TRITICEA ON WHEAT IN NORTH DAKOTA. Plant Dis. Rep. 53(5):378-381. Ref. May 1969. 1.9 P69P
R. O. Hoggson, J. E. Huguélet, and R. L. Kiesling, joint authors.
Abstract, p.378.
- 54741 Radewald, J. D., and others.
LONGIDORUS AFRICANUS A PATHOGEN OF HEAD LETTUCE IN THE IMPERIAL VALLEY OF SOUTHERN CALIFORNIA. Plant Dis. Rep. 53(5):381-384. May 1969. 1.9 P69P
J. W. Osgood, K. S. Mayberry, A. O. Paulus, and F. Shibuya, joint authors.
In the fall of 1967, Longidorus africanus Merny was found in soil around the roots of stunted lettuce seedlings in the Imperial Valley of southern California. Diseased seedlings appeared wilted and chlorotic and taproot tips were swollen and sometimes necrotic. Controlled greenhouse experiments proved L. africanus a pathogen of head lettuce. Field samplings during 1968 revealed the nematode was widespread throughout the valley and many crops such as cotton, sorghum, alfalfa, and sugarbeets will support large populations of this nematode in the field during the summer months when soil temperatures are extremely high. The pathogenicity of L. africanus to crops other than lettuce is unknown.
- 54742 Radewald, J. D., and others.
PREPLANT SOIL FUMIGATION FOR CALIFORNIA HEAD LETTUCE. Plant Dis. Rep. 53(5):385-389. May 1969. 1.9 P69P
P. G. Mowbray, A. O. Paulus, F. Shibuya, and J. M. Rible, joint authors.
Preplant bed fumigation of lettuce soils in the Pal Verde Valley of California with two 1,3-dichloropropene soil fumigants in three field trials significantly increased lettuce head weights. Treatments also produced trends toward a more uniform and earlier maturation of the crop; these differences, however, were not statistically significant. The nature of the beneficial response is not completely understood. Control of Tylenchorynchus clarus was associated with the beneficial response in two trials and Meloidogyne hapla in the other. Pathogenicity of T. clarus to lettuce is unproven. The distribution of M. hapla as a pathogen of head lettuce in this valley is also reported.
- 54743 Chew, C. F., Presley, J. T., and Staten, G.
SURVEY, SCREENING, AND BREEDING FOR BACTERIAL BLIGHT RESISTANCE IN COTTON. Plant Dis. Rep. 53(5):390-391. May 1969. 1.9 P69P
Xanthomonas malvacearum.
Annual surveys are made in the cotton-producing areas of New Mexico and west Texas to determine the presence and distribution of bacterial blight. Leaf and boll samples are collected from infected plants. The collections are screened in the greenhouse on standard differentials to determine which races of the organisms are involved, where they occur, and whether variants of the known races are present. This information is of value to those involved in the resistance breeding program, and to growers who may modify variety choice by knowledge of the organism present.
- 54744 Carter, J. C., and Dodd, F. O.
DISCOVERY AND DISTRIBUTION OF FUSICOCCUM [ELAEGNI] CANKER OF RUSSIAN OLIVE IN ILLINOIS. Plant Dis. Rep. 53(5):392. May 1969. 1.9 P69P
Nielsen, J.
A RACE OF USTILAGO TRITICI VIRULENT ON THATCHER WHEAT AND ITS DERIVATIVES. Plant Dis. Rep. 53(5):393-395. Ref. May 1969. 1.9 P69P
The wheat variety Thatcher, resistant to loose smut, Ustilago tritici (Pers.) Rostr., for over 30 years, was susceptible to a new race found in Alberta, Canada in 1966. The durum wheat variety lumilo, from which the smut resistance of Thatcher was derived, was also susceptible, but varieties such as Selkirk, that trace their resistance to Vernal Emmer, were resistant to the new race. The new race was collected from an increasingly larger area of western Canada in 1967 and 1968 and wider distribution is predicted in 1969. The origin of the new race, as a mutation to virulence in a pre-existing race prevalent on susceptible varieties grown in northern Alberta, is proposed.

- 54746 Hanlin, R. T.
THE IDENTITY OF PHYLLACTINIA ON
WINGED ELM IN GEORGIA. Plant Dis. Rep. 53(5):395-397. May 1969. 1.9 P69P
A powdery mildew on *Ulmus alata* is identified as *Phyllactinia angulata* (Salmon) Blumer, the first report of this species in Georgia.
- 54747 Aulakh, K. S.
ALTERNARIA BLIGHT OF GROUNDNUTS. Plant Dis. Rep. 53(5):397-398. May 1969. 1.9 P69P
Alternaria blight of groundnuts (*Arachis hypogaea*), a hitherto undescribed disease caused by *Alternaria tenuis* Auct., was found to be very destructive in some parts of the Punjab State during field surveys conducted in 1968.
- 54748 Aulakh, K. S., and Grover, R. K.
REACTION OF TOMATO VARIETIES AGAINST
ALTERNARIA SOLANI AND CLADOSPORIUM FULVUM. Plant Dis. Rep. 53(5):399. May 1969. 1.9 P69P
Of 41 varieties of tomato tested for their reaction against *Alternaria solani* and *Cladosporium fulvum*, 13 were found to be resistant to the former and 14 to the latter pathogen. Four varieties were resistant, and seven were susceptible, to both pathogens.
- 54749 Schnathorst, W. C.
DETECTABLE LEVELS OF XANTHOMONAS MALVACEARUM IN COTTON GIN DEBRIS WITH THE SEED-SOAK METHOD. Plant Dis. Rep. 53(5):400-402. May 1969. 1.9 P69P
Source for transmission to disease-free seed. The percentage of infection of cotton seedlings was related directly to the concentration of *Xanthomonas malvacearum* in suspensions in which the seed had been soaked. Single dried leaf lesions yielded an average of 5x10⁶ viable cells of *X. malvacearum*. When varying numbers of lesions were ground and incorporated into varying volumes of glass-distilled water, infection percentages, again, were related directly to the numbers of viable bacterial cells in suspension. The seed-soak method detected between 15,000 and 40,000 viable bacterial/ml of suspension. The number of viable bacteria in debris and level of contamination in a particular cotton gin can thus be approximated by the percentage of infection induced in cotton seedlings by soaking healthy seed in suspensions of contaminated gin debris.
- 54750 Epps, J. M.
SURVIVAL OF THE SOYBEAN CYST NEMATODE IN SEED STOCKS. Plant Dis. Rep. 53(5):403-405. May 1969. 1.9 P69P
Small balls of soil, or "peds," recovered from three seed sources contained cysts of the soybean cyst nematode (*Heterodera glycines* Ichinohe). Examination of three lots of natural peds showed that 1, 6, and 9 per cent of the peds contained only one cyst; however, as many as four were recovered from some peds. Five and 8 months after the peds were harvested with the seed, active larvae were observed; and the nematodes from all the lots had infected soybean roots.
- 54751 Awoderu, W. A.
A NEW LEAF SPOT OF PARA RUBBER (HEVEA BRASILIENSIS) IN NIGERIA. Plant Dis. Rep. 53(5):406-408. May 1969. 1.9 P69P
A new leaf spot disease of para rubber (*Hevea brasiliensis*) was found and described in Nigeria. The causal organism was identified and confirmed by the Commonwealth Mycological Institute as *Corynespora cassiicola* (Berk. and Curt.) Wei. It is suggested that the disease be referred to as the "Corynespora leaf spot" of Hevea.
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doubled, with between 62 and 80 percent of increase at-
tributed to technical change and between 20 and 38 per-
cent to increased capital intensity.
3. Capital has accounted for approximately 35
percent of the total output. This finding is consistent with
the findings of Douglas and Solow in their studies in the
nonagricultural sectors of our country.
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effective pricing.
A survey in 1964-66 of producers, warehouse
operators, local pool directors, and major wool process-
ors showed that all segments of the industry had prob-
lems which had no easy solution. The survey information
did not always provide objective guides to solving these
problems, but alternative practices are suggested that
would permit each segment to take advantage of new
technology or combination of procedures in upgrading its
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- 54844 Ransom, E. T.
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- 54845 Rodman, W. L.
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- 54846 Nixon, R.
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- 54847 Gulati, D. R.
SOYBEANS, A POTENTIAL CASH CROP IN INDIA. Foreign Agr. 7(20):8. May 19, 1969. A281.9 F76Fo
- 54848 Larsen, M. R.
YEAR OF DECREASED YIELDS; MAINLAND CHINA'S FARM OUTPUT DOWN IN 1968. Foreign Agr. 7(20):9-10. May 19, 1969. A281.9 F76Fo
- 54849 Clendenen, C. M.
MOROCCAN FARM OUTPUT UP, NEW GAINS SOUGHT. Foreign Agr. 7(20):11-12. May 19, 1969. A281.9 F76Fo
- 54850 Rodman, W. L.
GOVERNMENT POLICIES BRING CHANGES IN MEXICAN GRAIN. Foreign Agr. 7(20):12. May 19, 1969. A281.9 F76Fo
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- 54851 Traeger, F. W.
PHILIPPINE FOOD CROPS GAIN, EXPORTS LAG. Foreign Agr. 7(21):5-6. May 26, 1969. A281.9 F76Fo
Increase in food production and decrease in cash crops shifts trade patterns.
- 54852 Anderson, C. M.
IVORY COAST'S EDIBLE OIL PLANS. Foreign Agr. 7(21):6-7. May 26, 1969. A281.9 F76Fo
- 54853 Anderson, C. M.
SIERRA LEONE'S VILLAGE INDUSTRY. Foreign Agr. 7(21):7. May 26, 1969. A281.9 F76Fo
Chiefly African oil palm.
- 54854 Shelden, G. W.
SENEGAL'S PEANUT AND OIL SALES. Foreign Agr. 7(21):7. May 26, 1969. A281.9 F76Fo
Includes attempts to produce cottonseed oil.
- 54855 Clendenen, C. M.
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- 54856 Mackie, P. L.
CHEDDAR-TYPE CHEESE DUMPING ON U.K. MARKET STUDIED. Foreign Agr. 7(21):9. May 26, 1969. A281.9 F76Fo
Competition with home industry.
- 54857 Phillipsen, W.
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AUSTRALIA PUSHES PRODUCTION OF SUNFLOWERSEED. Foreign Agr. 7(21):16. May 26, 1969. A281.9 F76Fo
- 54859 Cohen, M. H.
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- 54860 Vieira, C. A.
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- 54861 Lege, F. M.
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- 54861 Nicks, G. S.
PIONEER PROMOTION OF HAWAIIAN PAPAYAS IN JAPAN. Foreign Agr. 7(22):8. June 2, 1969. A281.9 F76Fo
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- 54863 Putterbaugh, R. F.
DROUGHT CUTS SOUTH AFRICAN CORN AND SORGHUM. Foreign Agr. 7(22):11. June 2, 1969. A281.9 F76Fo
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CANADA'S POULTRYMEN PUSH FOR MARKET ORGANIZATIONS. Foreign Agr. 7(23):11. June 9, 1969. A281.9 F76Fo
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NEW WORLD COTTON FUTURES MARKET OPENS IN LONDON. Foreign Agr. 7(23):16. June 9, 1969. A281.9 F76Fo
- 54870 Phillips, R. W.
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- 54871 U. S. D. A. Foreign Agricultural Service.
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GRAIN DEVELOPMENTS IN THE COMMON MARKET. U. S. Foreign Agr. Serv. FAS-M-202, 13 p. Dec. 1968. A281.9 F76Fm
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- 54872 Mills, W. J.
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- 54874 Goings, K. R.
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AN OPERATIONAL TEST OF AN INFRARED FIRE DETECTION SYSTEM. Fire Contr. Notes [Washington] 30(2):8-10. Spring 1969. 1 F766Fi
- 54876 Shero, J., and Clark, L.
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Forest fire control.
- 54877 Myler, D. W.
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54898 Rietz, R. C.
NEWS AND VIEWS OF THIS KILN DRYING BUSINESS; DIP TREATMENT IN POLYETHYLENE GLYCOL NOT EFFECTIVE IN PREVENTING SURFACE CHECKING. U. S. Forest Serv. Res. Note FPL-0204, 6 p. Feb. 1969. A99.9 F7634Un
Wisconsin University, cooperating.

Dipping green red oak boards in a nearly saturated polyethylene glycol solution was not effective in reducing surface checking. In fact the treatment increased surface check development as compared with untreated controls. The experiment verified the benefit of presurfacing as a means of reducing surface checking.

54899 Berry, F. H.
SPREAD OF FOMES ANNOSUS ROOT ROT IN THINNED SHORLEAF PINE PLANTATIONS. U. S. Forest Serv. Res. Note NE-87, 4 p. 1968. A99.9 F7622U
Plots were established in thinned shortleaf pine plantations in Missouri to determine the rate of spread of Fomes annosus root rot over a 5-year period. On these plots mortality from F. annosus was about 5 trees per acre per year.

54900 Minore, D.
EFFECTS OF ARTIFICIAL FLOODING ON SEEDLING SURVIVAL AND GROWTH OF SIX NORTHWESTERN TREE SPECIES. U. S. Forest Serv. Res. Note PNW-92, 12 p. Ref. Oct. 1968. A99.9 F7625U

Seedlings of Douglas-fir, Sitka spruce, western hemlock, western redcedar, lodgepole pine, and red alder were inundated in tanks for various lengths of time in both winter and summer. Winter flooding for periods of 1 to 4 weeks severely injured Douglas-fir but had little or no effect on other species. Summer flooding for 4 and 8 weeks affected all six species—many seedlings died, and many formed adventitious roots at the waterline. Western redcedar and lodgepole pine seemed to be the most flood-tolerant species; red alder, Sitka spruce, and western hemlock seemed to be less tolerant; and Douglas-fir was extremely intolerant of flooding.

54901 Bruce, D.
CHARTS FOR DETERMINING SAMPLING RATE AND NUMBER IN SAMPLE. U. S. Forest Serv. Res. Note PNW-97, 6 p. Feb. 1969. A99.9 F7625U

Four charts are presented that show sampling rate and number in sample for different desired levels of accuracy when number in population and coefficient of variation can be estimated.

54902 Fowler, W. B.
A DIGITAL INDICATOR FOR MAXIMUM WIND SPEEDS. U. S. Forest Serv. Res. Note PNW-98, 4 p. Mar. 1969. A99.9 F7625U

A simple device for indicating maximum wind speed during a time interval is described. Use of a uni-junction transistor, for voltage sensing, results in a stable comparison circuit and also reduces overall component requirements. Measurement is presented digitally in 1-mile-per-hour increments over the range of 0-51 m.p.h.

54893 Miller, R. E.
CAN AUGER PLANTING IMPROVE SURVIVAL OF DOUGLAS-FIR SEEDLINGS? U. S. Forest Serv. Res. Note PNW-99, 8 p. Mar. 1969. A99.9 F7625U

Survival and apparent vigor of Douglas-fir seedlings were compared after: (1) hoe planting of root-trimmed seedlings; (2) as above, plus manual site preparation; and (3) auger planting of untrimmed seedlings. After two growing seasons, survival with method (3) but not (2) was significantly greater than survival with method (1). After the third season, survival differences were no longer statistically significant. Survival percentages were 40, 52, and 60 for methods (1), (2), and (3), respectively; and 50, 85, and 87 percent of the survivors were judged healthy. These results are discussed in relation to survival and cost data from other trials of auger versus hoe planting.

54894 Silen, R. R., and Keane, G.
COOLING A DOUGLAS-FIR SEED ORCHARD TO AVOID POLLEN CONTAMINATION. U. S. Forest Serv. Res. Note PNW-101, 10 p. Mar. 1969. A99.9 F7625U

A very cold water spray was used in a Douglas-fir seed orchard to reduce pollen contamination by arresting floral buds in their scales during period of local pollen release. Numbers of pollen grains per cone were thereby reduced from over 1,300 on control plots to a tolerable 100 or less on sprayed plots.

54905 Skolmen, R. G.
PRESERVATIVES EXTEND SERVICE LIFE OF OHIA [METROSIDEROS COLLINA] AND ROBUSTA [EUCALYPTUS ROBUSTA] POSTS. U. S. Forest Serv. Res. Note PSW-171, 2 p. 1968. A99.9 F7652

Posts of ohia and robusta, pressure-treated with two preservatives—chromated copper arsenate and pentachlorophenol, are being tested for durability at the Makiki Exposure Site, Honolulu, Hawaii. All treated posts are still sound after 5 years. Untreated ohia posts averaged 4 years of service life before failing; untreated robusta posts averaged 4 1/2 years.

54906 Walton, G. S.
LOG-NORMAL SPRAY DROP DISTRIBUTION ANALYZED BY TWO NEW COMPUTER PROGRAMS. U. S. Forest Serv. Res. Note PSW-174, 8 p. 1968. A99.9 F7652

Results of U. S. Forest Service research on chemical insecticides suggest that large drops are not as effective as small drops in carrying insecticides to target insects. Two new computer programs have been written to analyze size distribution properties of drops from spray nozzles. Coded in Fortran IV, the programs have been tested on both the CDC 6400 and the IBM 7094 computers. Instructions on their use are included.

54907 Cramer, O. P., and Moltzau, R. H.
WIND INSTRUMENT MOUNTINGS FOR ABOVE THE CAB LOOKOUT EXPOSURE. U. S. Forest Serv. Res. Note PSW-175, 9 p. 1968. A99.9 F7652

The lookout tower offers a ready-made platform from which the speed of true unobstructed wind can be measured, then reduced to equivalent of 20-foot wind. Tower-mounted instruments must meet the requirements of a lightning conductor system, but should also be easily installed and removed for storage and maintenance. Lightweight aluminum mountings for catwalk or flat-roofed installations are described.

54908 Lyon, R. L., and Swain, K. M.
FIELD TEST OF LINDANE AGAINST OVERWINTERING BROODS OF THE WESTERN PINE BEETLE [DENDROCTONUS BREVICORNIS]. U. S. Forest Serv. Res. Note PSW-176, 4 p. Ref. 1968. A99.9 F7652

Ips confusus and D. ponderosae.
The insecticide lindane, applied on bark any time of the year, can effectively destroy broods of the western pine beetle. It may also be effective the year round on the mountain pine beetle, the California five-spined ips, and probably other California species of bark beetles. In tests on the Sierra National Forest, lindane spray formulated at 1.5 percent concentration in diesel oil killed 86.9 to 99.4 percent of western pine beetle broods overwintering in ponderosa pine logs.

- 54899 Hill, M. R., and Amidon, E. L.
INVENTORYING NATIONAL FOREST RESOURCES FOR PLANNING-PROGRAMING-BUDGETING SYSTEM. U. S. Forest Serv. Res. Note PSW-178, 4 p. 1968. A99.9 F7652

New systems for analyzing resource management problems, such as Planning-Programing-Budgeting, will require automated procedures to collect and assemble resource inventory data. A computer-oriented system called Map Information Assembly and Display System developed for this purpose was tested on a National Forest in California. It provided information on eight forest resource systems at an average cost of 0.16 cents per acre. An area the size of a National Forest appears to be the upper limit for the MIADS program.

- 54900 Wick, H. L.
FOREST PRODUCTS HARVESTED IN HAWAII; 1967. U. S. Forest Serv. Res. Note PSW-179, 5 p. 1968. A99.9 F7652

A survey of the primary forest products harvested in Hawaii in 1967 showed a total value of \$334,000, a 24 percent increase over the value in the 1958 survey. Compared with the earlier survey, the volume of sawlogs and treefern harvested has gone up while the volume of fuelwood and posts harvested has declined.

- 54901 Amidon, E. L., and Elsner, G. H.
DELINEATING LANDSCAPE VIEW AREAS; A COMPUTER APPROACH. U. S. Forest Serv. Res. Note PSW-180, 5 p. 1968. A99.9 F7652

Forest scenery.
The terrain visible from a given point can be determined quickly and efficiently by a computer. A FORTRAN subprogram called VIEWIT has been developed for this purpose. Input consists of data on elevations, by coordinates, which can be obtained from maps or aerial photos. The computer will produce an overlay that shows the maximum area visible from the observation point. Both the observation point and the length of line-of-sight are variable. This new technique makes it unnecessary to draw overlays manually.

- 54902 Schroeder, M. J., and Taylor, B. B.
INAJA FIRE-1965, PINE HILLS FIRE-1967; SIMILAR, YET DIFFERENT. U. S. Forest Serv. Res. Note PSW-183, 7 p., map. 1968. A99.9 F7652

- 54903 Mueller, L. A., Markstrom, D. C., and Lutz, J. F.
PRELIMINARY EVALUATION OF SMALL-DIAMETER BLACK HILLS PONDEROSA PINE FOR VENEER AND PLYWOOD. U. S. Forest Serv. Res. Note RM-117, 11 p. 1968. A99.9 F7632Us

Logs 8 to 15 inches in diameter produced veneer suitable for sheathing-grade plywood. Veneer cutting and drying presented no particular problems.

- 54904 Gary, H. L.
SOIL TEMPERATURES UNDER FOREST AND GRASSLAND COVER TYPES IN NORTHERN NEW MEXICO. U. S. Forest Serv. Res. Note RM-118, 11 p., map. 1968. A99.9 F7632Us

Temperatures for selected soil depth (1.5 to 112 inches) under aspen, Douglas-fir, spruce-fir and grassland types on north- and south-facing aspects from 9,900 to 11,150 feet above m.s.l. are reported for 1 year. Plant cover type was more important in modifying soil temperature than aspect, elevation, or snow cover. Average annual temperature for the first 12 inches of soil ranged from 33.2°F. on the north-aspect spruce-fir at 11,150 feet to 40.8°F. on the south-aspect aspen at 9,900 feet. Depth of freezing temperatures during the period of snow cover ranged from 1.5 to 3 feet.

- 54905 Pearson, H. A.
THINNING, CLEARCUTTING, AND RESEEDING AFFECT DEER AND ELK USE OF PONDEROSA PINE [PINUS PONDEROSA] FORESTS IN ARIZONA. U. S. Forest Serv. Res. Note RM-119, 4 p., map. 1968. A99.9 F7632Us

Logging or slash disposal after thinning may decrease deer but increase elk populations. Deer and elk did not significantly affect forage utilization measurements.

- 54906 Gottfried, G. J., and Campbell, C. J.
A SHIELDED THERMISTOR PROBE WITH PORTABLE INSTRUMENT FOR MEASURING SNOWPACK TEMPERATURES. U. S. Forest Serv. Res. Note RM-120, 3 p. 1968. A99.9 F7632Us

A phenol-resin-based shield has been designed to protect a thermistor probe that can be inserted into a snowpack. The shield also serves as an insulator between the thermistor and the aluminum pole used to probe assembly into the snowpack. With the probe and Wheatstone bridge circuit, temperatures can be measured within the snowpack to 0.1°C.

- 54907 Mace, A. C.
EFFECTS OF SOIL FREEZING ON WATER YIELDS. U. S. Forest Serv. Res. Note RM-121, 4 p. Ref. 1968. A99.9 F7632Us

Concrete and granular types of soil freezing in the White Mountains of Arizona influence the disposition of snowmelt water. Concrete frost occurs in the open grassland areas, and appears to increase surface runoff. Only granular frost occurs in the timber types, and appears to decrease surface runoff and increase soil moisture recharge. Concrete freezing causes increased soil moisture and reduced bulk densities in the zone of freezing, whereas granular freezing has no effect on these properties.

- 54908 McKnight, M. E.
THE 24-INCH BRANCH AS A SAMPLE UNIT FOR EGG MASS SURVEYS OF THE WESTERN BUDWORM. U. S. Forest Serv. Res. Note RM-122, 2 p. 1968. A99.9 F7632Us

Estimates of the density of western budworm (*Choristoneura occidentalis* Freeman) egg masses on needles of Douglas-fir are not different on a 24-inch branch sample and the conventional half-branch sample. The smaller 24-inch branch sample is gathered by a small field crew using a pole pruner. The foliage can be gathered in one-third the time and examined in the laboratory in half the time required for half-branch samples.

- 54909 Clary, W. P., Fiolliott, P. F., and Jameson, D. A.
RELATIONSHIP OF DIFFERENT FOREST FLOOR LAYERS TO HERBAGE PRODUCTION. U. S. Forest Serv. Res. Note RM-123, 3 p. Ref. 1968. A99.9 F7632Us

Chiefly grasses.
Herbage production decreases as individual layers and total depth of ponderosa pine forest floor increases. The H layer or total depth of the forest floor accounts for more variation in herbage production than the L or F layers. Management practices which remove only the L and F layers of the forest floor cannot be expected to increase herbage production appreciably.

- 54910 Fiolliott, P. F., and Hansen, E. A.
OBSERVATIONS OF SNOWPACK ACCUMULATION, MELT, AND RUNOFF ON A SMALL ARIZONA WATERSHED. U. S. Forest Serv. Res. Note RM-124, 7 p. Ref. 1968. A99.9 F7632Us

Intensive measurements of snow and streamflow on a 425-acre ponderosa pine watershed indicated that more than 90 percent of the snowpack left the watershed as runoff. Snow accumulation was inversely related to forest density, which indicates a possible opportunity for increasing snow accumulation through more intensive forest management.

- 54911 Chansler, J. F.
DOUGLAS-FIR BEETLE BROOD DENSITIES AND INFESTATION TRENDS ON A NEW MEXICO STUDY AREA. U. S. Forest Serv. Res. Note RM-125, 4 p. 1968. A99.9 F7632Us

Dendroctonus pseudotsugae on *Pseudotsuga menziesii*.

The density of callow adult beetles before flight is a good indicator of the trend an infestation will take. It should be possible to devise a systematic sampling system to determine adult numbers that would enable the entomologist to predict infestation trends quite accurately.

- 54912 Yerkes, V. P., and Markstrom, D. C.
COMPOSTING PONDEROSA PINE BARK; EFFECTS OF NITROGEN ADDITION AND AERATION. U. S. Forest Serv. Res. Note RM-126, 4 p. Ref. 1968. A99.9 F7632Us

Composting of ponderosa pine bark for 9 weeks resulted in a product with a disappearing bark structure, a darkened color, and an "earthy" odor. The addition of nitrogen and aeration speeded up the composting process.

54913 Ffolliott, P. F., Clary, W. P., and Davis, J. R. SOME CHARACTERISTICS OF THE FOREST FLOOR UNDER PONDEROSA PINE [PINUS PONDEROSA] IN ARIZONA. U. S. Forest Serv. Res. Note RM-127,4 p. Ref. 1968. A99.9 F7632Us

Timber basal area was the only stand or site variable tested that was significantly related to amounts of individual layers or total forest floor. Frequency distributions of forest floor depths were developed to be used as a management tool when critical ranges of depths affecting wildland products are defined.

54914 Shoulders, E., and Terry, T. A. CLIMATE AT THE SEED SOURCE AFFECTS LONGLEAF PINE [PINUS PALUSTRIS] PERFORMANCE IN LOUISIANA PLANTATION. U. S. Forest Serv. Res. Note SO-78,5 p.-folder, map. Ref. 1968. A99.9 F7628U

Survivals at 5 and 10 years were correlated with mean annual temperature at the seed source. Height growth was associated with early-season rainfall at the seed source.

54915 Jorgensen, J. R. ROOT GROWTH OF DIRECT-SEEDED SOUTHERN PINE SEEDLINGS. U. S. Forest Serv. Res. Note SO-79,7 p. 1968. A99.9 F7628U

Root development of direct-seeded loblolly, longleaf, and slash pines was influenced by soil texture and structure during the first summer of growth. Plants in the field had root systems much different than reported for seedlings in greenhouses or nurseries.

54916 Schmidting, R. C., and Scarbrough, N. M. GRAPHIC ANALYSIS OF ERAMBERT'S HYBRID. U. S. Forest Serv. Res. Note SO-80,3 p. 1968. A99.9 F7628U

The variability of progeny in needle length, fascicle sheath length, and number of stomates per row per centimeter indicates that Erambert's hybrid is a cross between longleaf and loblolly, Sonderegger pine. The analysis described should help identify other southern pine hybrids.

54917 Williston, H. L. CLEARCUTTING AND PLANTING BEST FOR REGENERATING PINE IN NORTHERN MISSISSIPPI STUDY. U. S. Forest Serv. Res. Note SO-81,5 p. 1968. A99.9 F7628U

Areas that had been clearcut of shortleaf and planted with loblolly pine were 58 percent stocked with dominant pines 10 years later. Satisfactory reproduction was not obtained after seed-tree, shelterwood, or selection cuttings. Board-foot growth (B) and cubic-foot growth (C) of residual trees during the 10 years after cutting were related to residual basal area (X) with the equations: $B = 5.26 X + 18$ and $C = 0.73 X + 2.2$.

54918 Johnson, R. L. THINNING IMPROVES GROWTH IN STAGNATED SWEETGUM [LIQUIDAMBAR STRYACIFLUA] STANDS. U. S. Forest Serv. Res. Note SO-82,5 p. 1968. A99.9 F7628U

Thinning in small (average d.b.h. 10 inches) but old sweetgum stands forestalled mortality and stimulated growth of some residuals. From a starting basal area of about 120 square feet per acre, selective thinning to approximately 70 square feet maximized cubic-foot growth over a 10-year period. Thinning to about 90 square feet gave equivalent total growth but the poorest growth rate per tree. Thinning to about 55 square feet gave the most growth per tree, but left too few trees to utilize the site fully.

54919 Snyder, E. B., and Allen, R. M. MOUNTAIN LONGLEAF PINE [PINUS PALUSTRIS] EXCELS ONLY IN LOCAL PLANTINGS. U. S. Forest Serv. Res. Note SO-83,4 p. Ref. 1968. A99.9 F7628U

In reciprocal plantings of longleaf pine from the mountains of Alabama and the Gulf Coastal Plain in southern Mississippi, Alabama sources outperformed Mississippi sources only in the mountains.

54920 Mesavage, C. REVISED CALCULATOR FOR BARR AND STROUD DENDROMETERS. U. S. Forest Serv. Res. Note SO-84,4 p. 1968. A99.9 F7628U

With pasted-on scales, a slide rule can be used to field-check readings made with all models of Barr and Stroud dendrometers.

54921 Wakeley, P. C. REPLACEMENT PLANTING OF SOUTHERN PINES UNSUCCESSFUL. U. S. Forest Serv. Res. Note SO-85,4 p. 1968. A99.9 F7628U

Growth of *Pinus elliotii*, *P. taeda* and *P. palustris*. Three decades' survival and growth of replacements planted at stand age 1 or 2 years were far inferior to those of the original trees. This was true regardless of plantation spacing, percentage of fall spots, or intensity of thinning.

54922 Boyer, W. D. FOLIAGE WEIGHT AND STEM GROWTH OF LONGLEAF PINE [PINUS PALUSTRIS]. U. S. Forest Serv. Res. Note SO-86,2 p. 1968. A99.9 F7628U

Determination of photosynthetic efficiency. In 45- to 60-year-old stands with densities ranging from nine to 47 trees per acre, an average of 13.2 cubic feet of wood per year was produced per thousand pounds of new needles.

54923 Hallock, H. SAWING TO REDUCE WARP OF LODGEPOLE PINE [PINUS CONTORTA] STUDS. U. S. Forest Serv. Res. Paper FPL-102,31 p. Ref. Mar. 1969. A99.9 F7634U

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pression and shear. Properties determined will enable
structural engineers to arrive at rational designs of
sandwich constructions using these cores.
Compressive strengths at 75°F. were 100
p.s.i. (pounds per square inch) for the 1.5 p.c.f. core and
320 p.s.i. for the 3 p.c.f. core. At 500°F. compressive
strengths were 55 percent of those at 75°F. for the 1.5
p.c.f. core and 40 percent for the 3 p.c.f. core.
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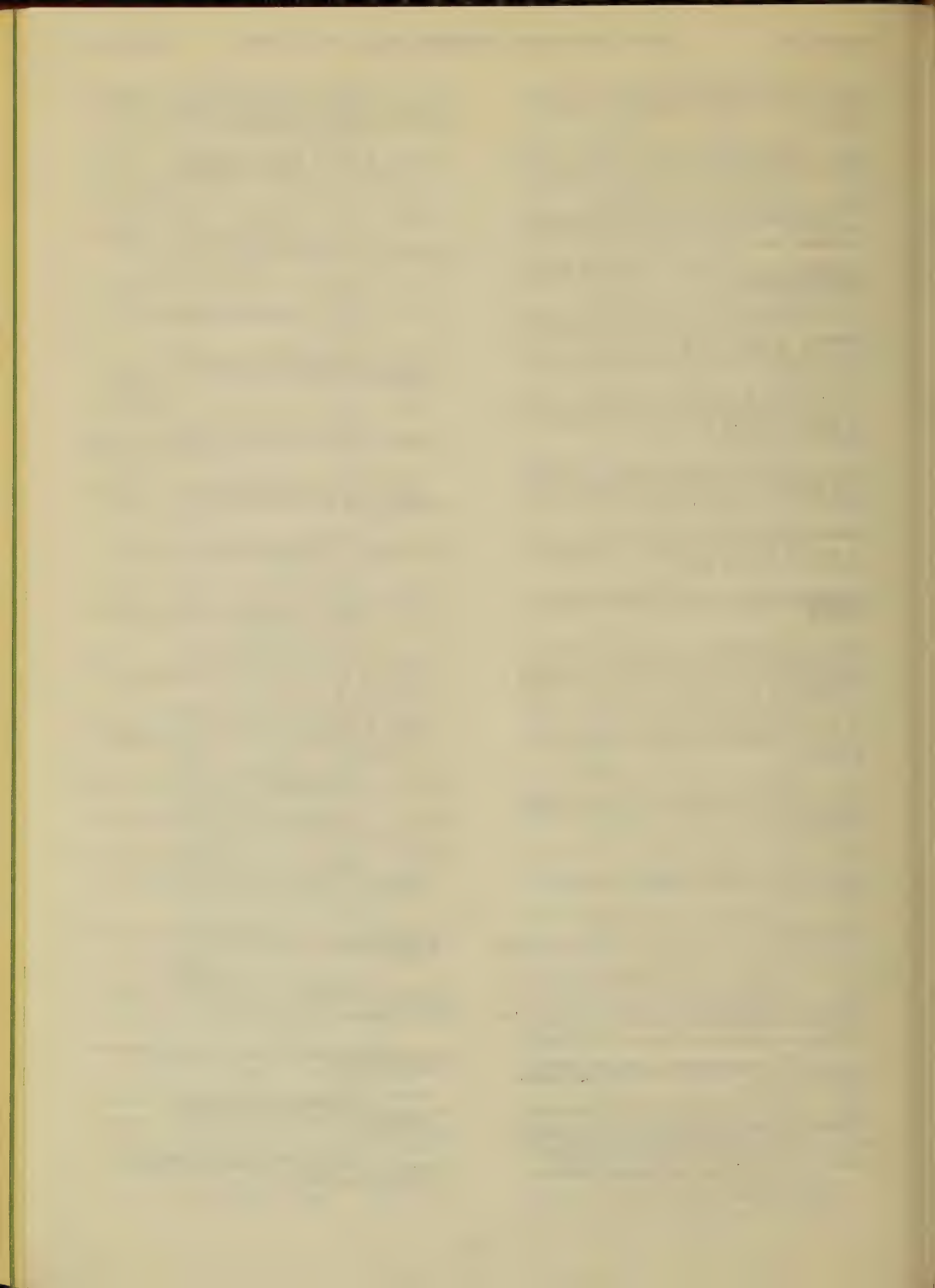
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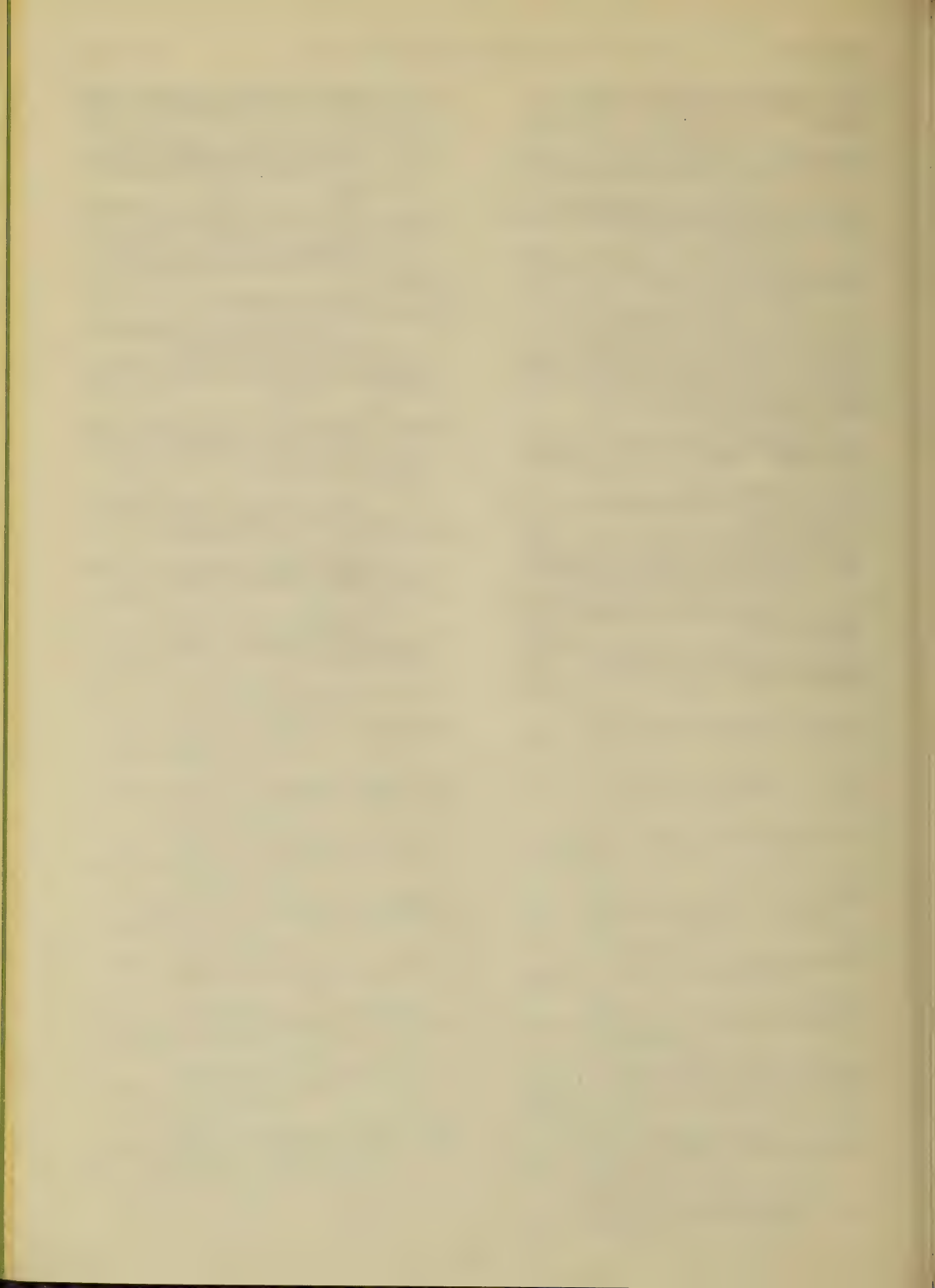
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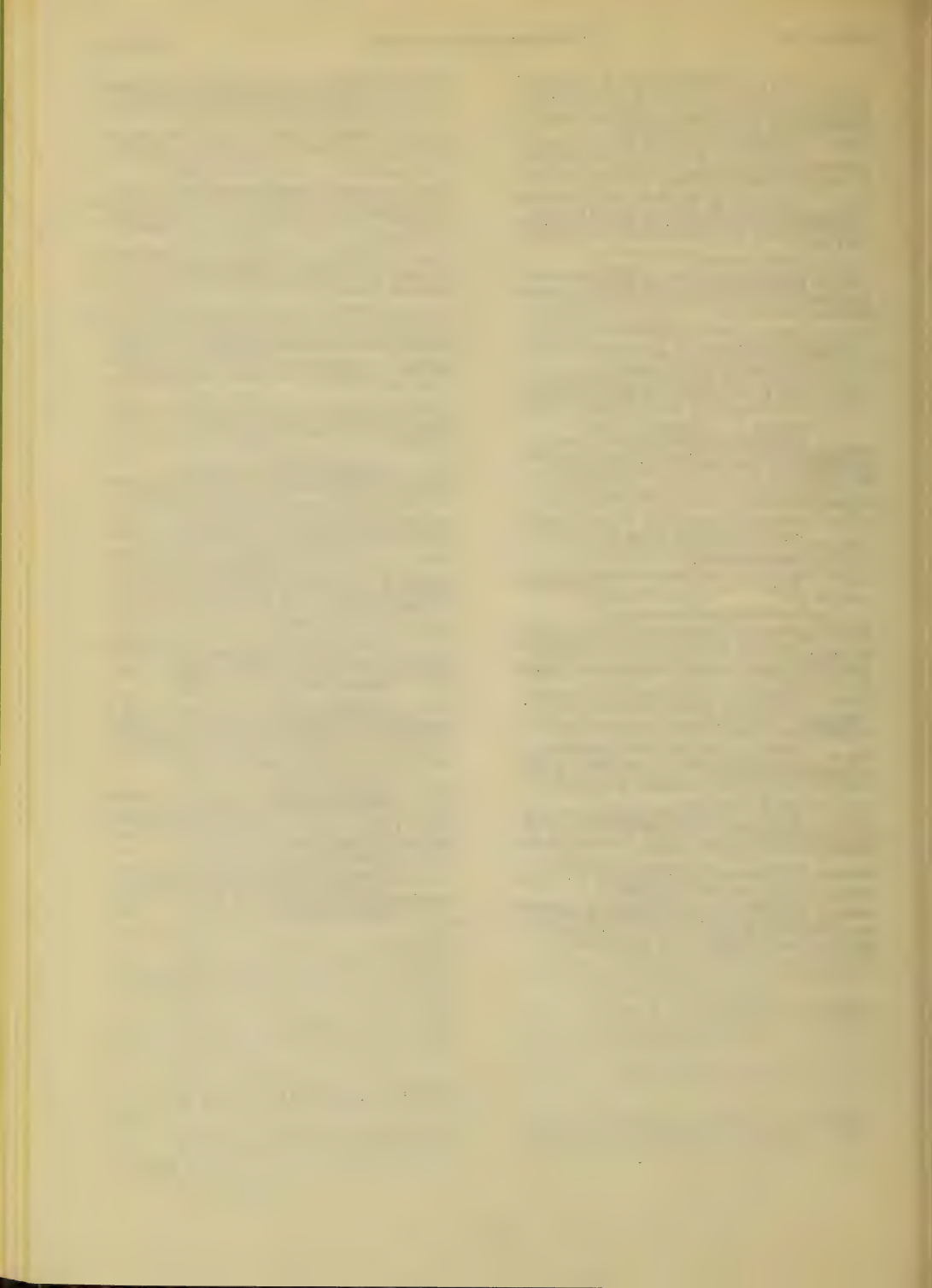
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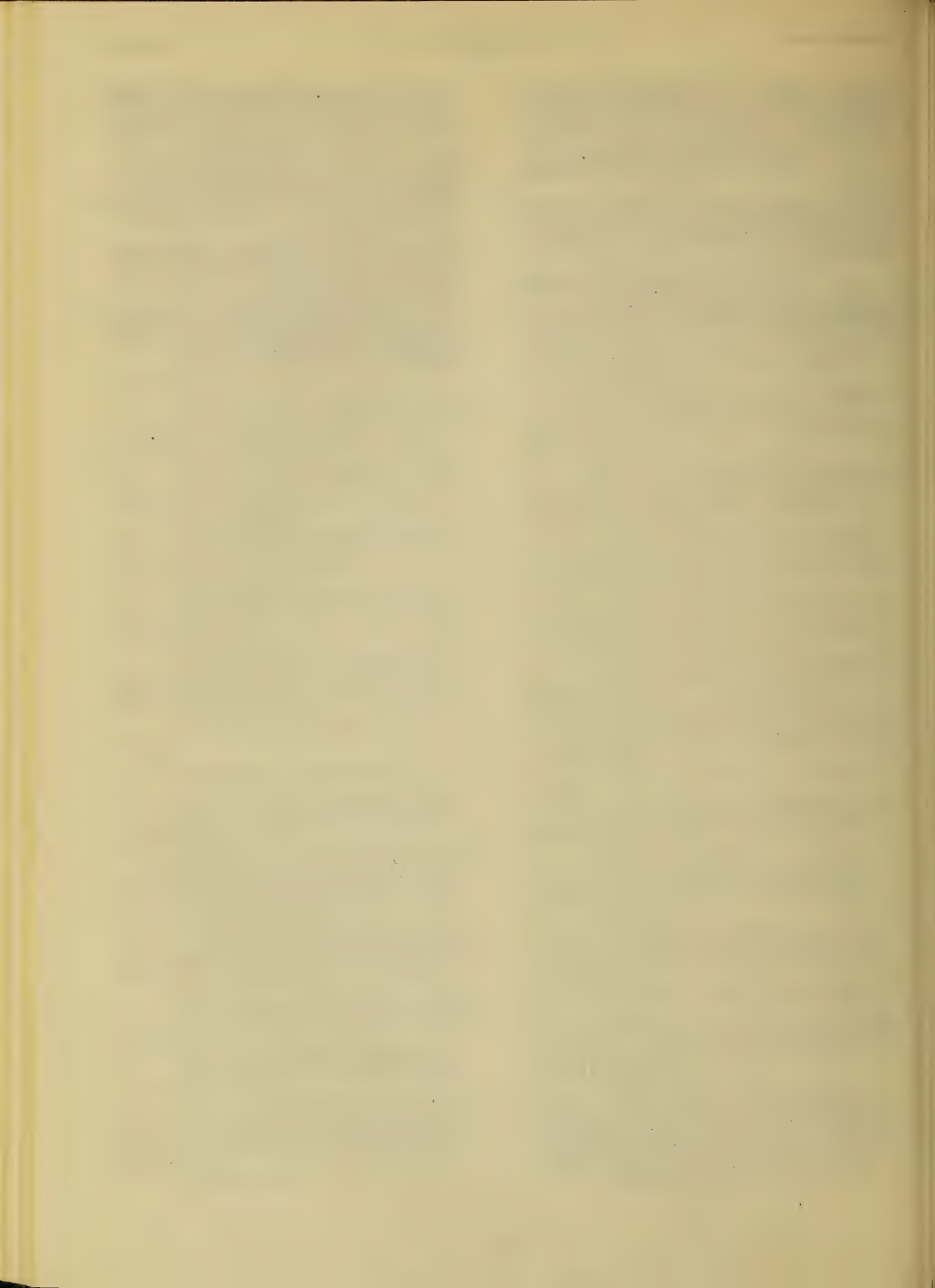
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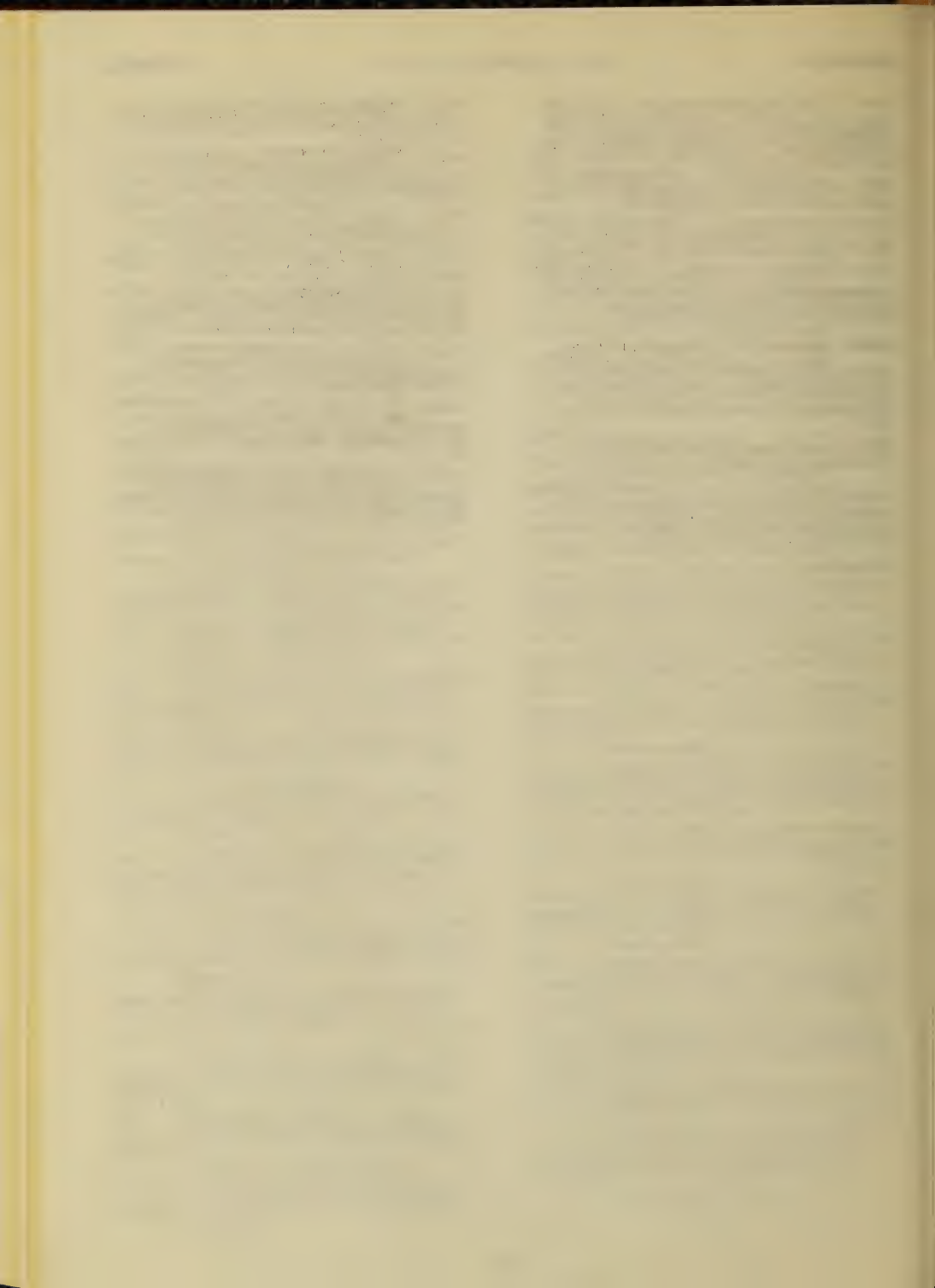
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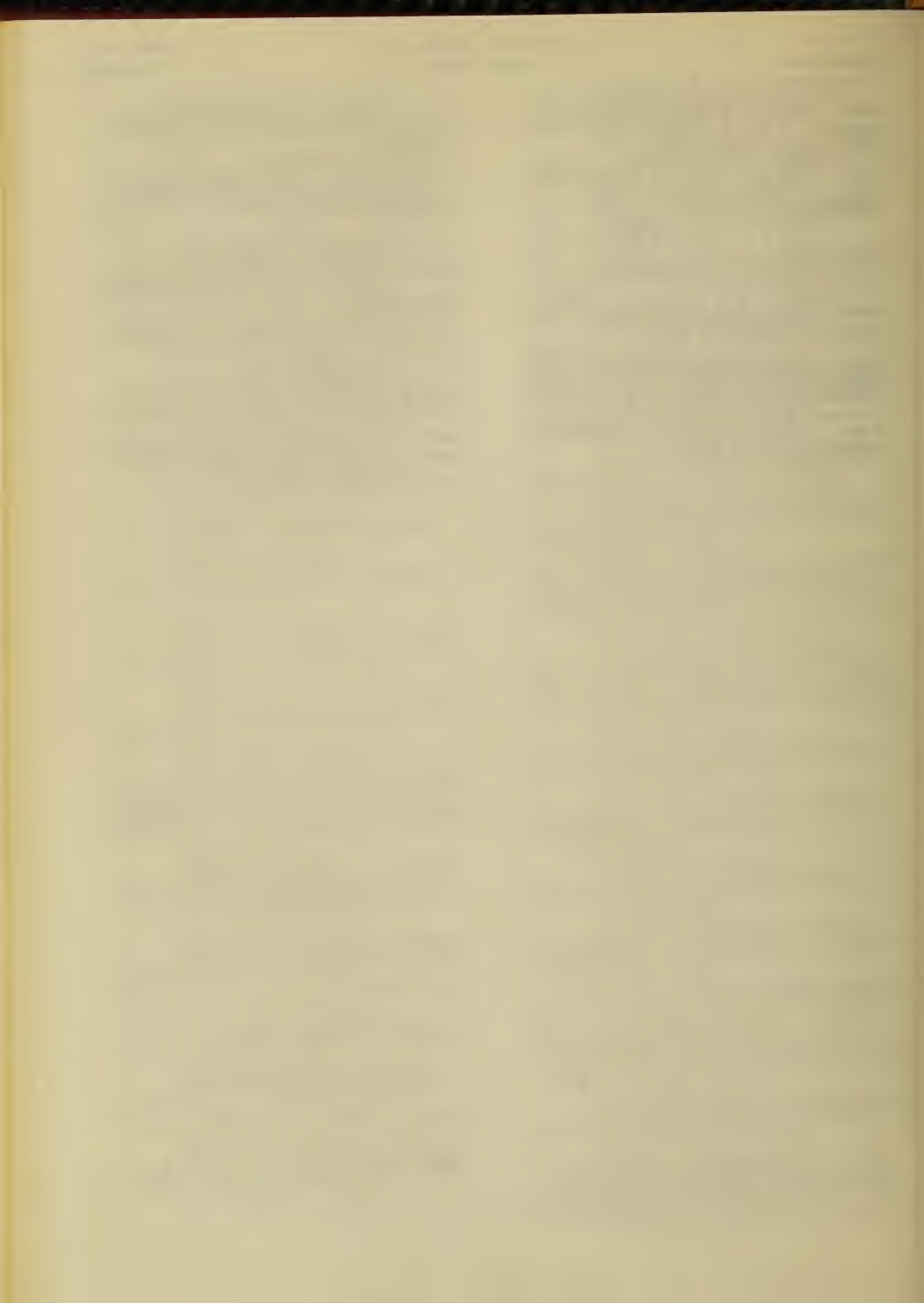
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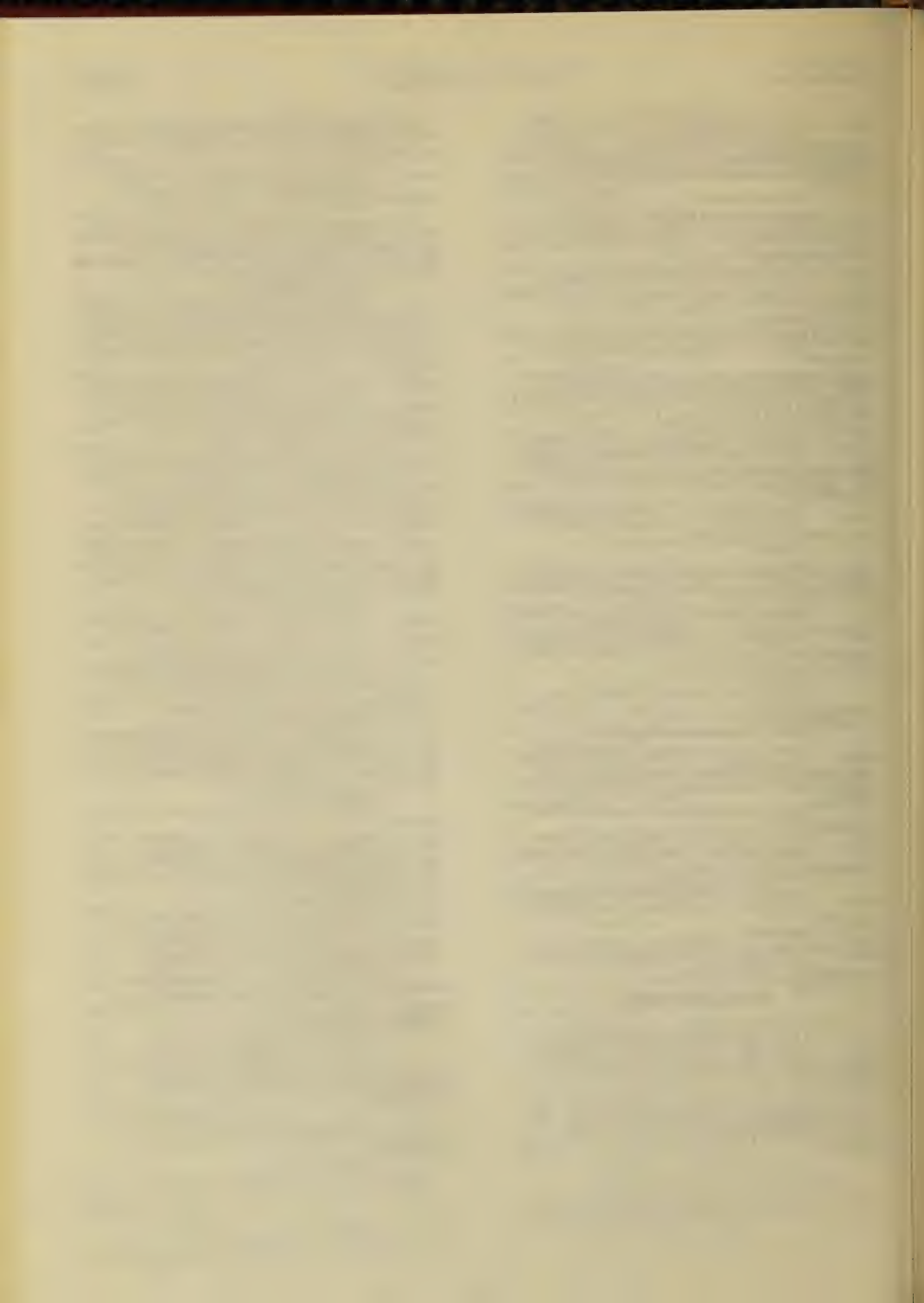
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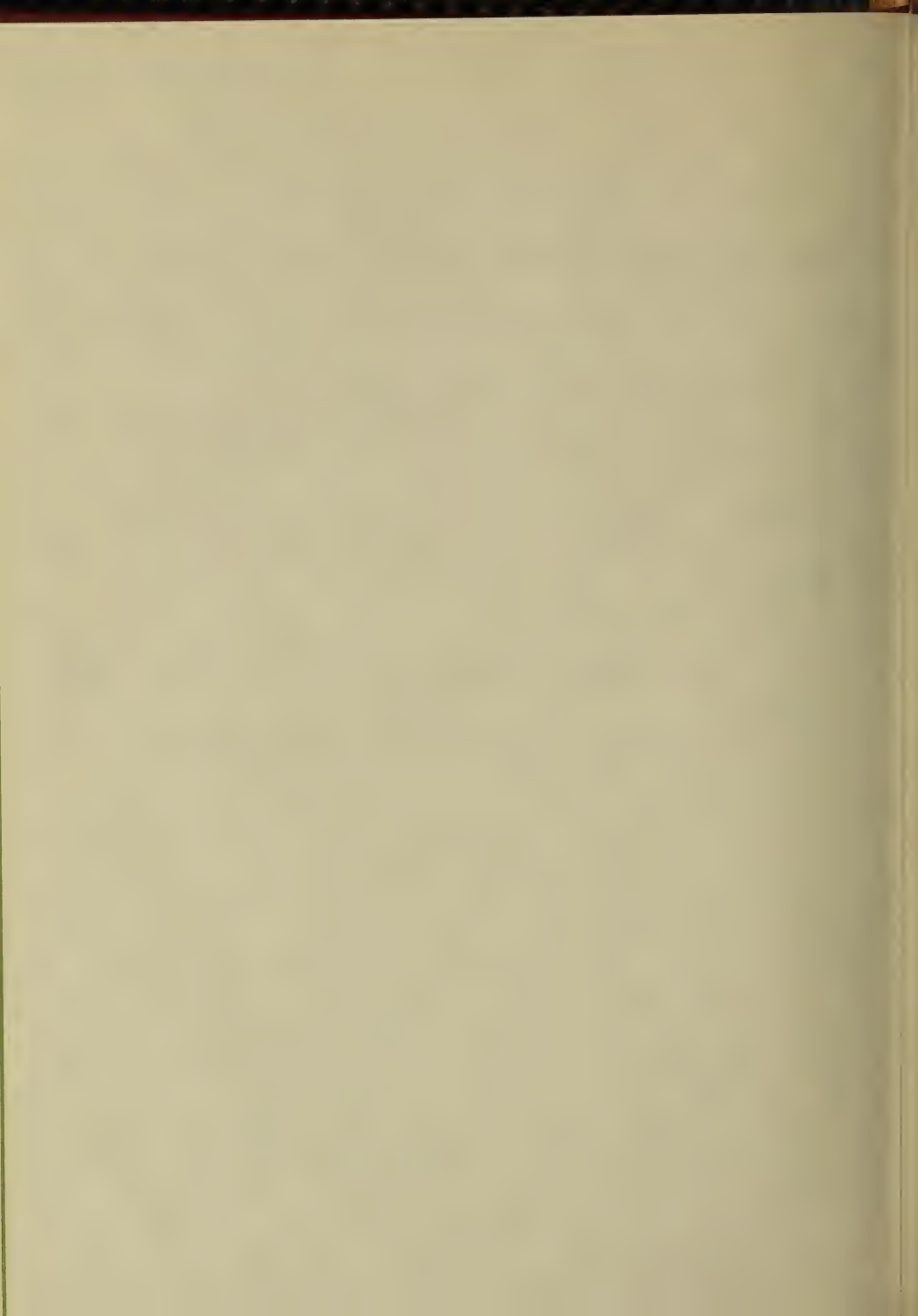


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The purpose of permuting the entries was to obtain additional points of access to the information and to increase the specificity of information under each entry.

The above action is one more instance of the use of computers to increase the accessibility of information in the National Agricultural Library.



BIBLIOGRAPHY OF AGRICULTURE

Vol. 33

October 1969

No. 10

The Bibliography of Agriculture is an index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Publications from any country are indexed, provided they are in one of the languages shown in CAPITALS at top of next column, or have summaries, abstracts, or translated titles in one of those languages.

Literature received more than one year after publication is generally not indexed. Exceptions are made for important scientific publications.

Indexing of articles on the processing of agricultural products is limited to those on primary processing.

Unsigned articles and those signed with pseudonyms or initials, editorials, letters to the editor, and columns appearing regularly, are omitted.

For more detailed coverage of the literature on pests and their control, please consult the Pesticides Documentation Bulletin, a biweekly publication of the National Agricultural Library.

FORMAT

The Bibliography is a classified arrangement of references under the following subjects:

- USDA Publications
- State Agricultural Experiment Station Publications
- State Agricultural Extension Service Publications
- Agricultural Economics and Rural Sociology
- Agricultural Products
- Animal Industry
- Engineering
- Entomology
- Food and Human Nutrition
- Forestry
- Plant Science
- Soils and Fertilizers
- Miscellaneous

The classified section is followed by the listing of:

- New Periodicals and Serials
- Translations
- Food and Agriculture Organization of the United Nations (FAO) Publications

The last section of each monthly issue, except November, is the Author and Subject Index for that issue.

For monographs the title is shown in the original language, followed by the English version. Titles of foreign language articles in serial publications are given in English only; the language of the text is shown in abbreviated form in parentheses at the end of the title. The following notations are used:

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Abbreviated names of the publications cited prior to July 1, 1964 are those from USDA Miscellaneous Publication 765-List of Serials Currently Received in the Library of the United States Department of Agriculture, July 1, 1957. Abbreviated names of all new periodical titles received after July 1, 1964, are taken from the American Standard for Periodical Title Abbreviations. As time allows, abbreviations set up for titles before that date will be converted to the new form.

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CHECKLISTS

Checklists of publications of the U. S. D. A., State Agricultural Experiment Stations, and State Agricultural Extension Services are prepared for the convenience of those who wish to follow the literature from these sources. Most of these publications are included also in the classified section. All are indexed in the author and subject indexes.
Abstracts are included with citations of U. S. D. A. publications, provided they are brief and are received with the original publication.

U. S. D. A. PUBLICATIONS

Publications in the various United States Department of Agriculture series are listed first, followed by publications issued by the various agencies within the Department, arranged alphabetically by name of agency.

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Agricultural Economic Reports

- 62678 Smith, E. J.
SPANISH-SURNAME FARM OPERATORS IN
SOUTHERN TEXAS. U. S. D. A. Agr. Econ. Rep. 162,
61 p., map. Ref. June 1969. A281.9 Ag8A
Chiefly economic status and education of
Mexican-Americans.
Summary, p. VIII-IX.

Agriculture Handbooks

- 62679 U. S. D. A.
FIRST AID FOR FLOODED HOMES AND
FARMS. U. S. D. A. Agr. Handbook 38, rev., 28 p. Apr.
1969. 1 Ag84Ah
Floods have always plagued mankind. Modern
farms are particularly vulnerable, and no effort should
be spared to protect and rehabilitate them.
This publication is intended to help persons
who have returned to flooded homes and farms and are
clearing, rebuilding, and trying to reduce their losses. It
contains information contributed by the U. S. Department
of Agriculture, by some State agricultural colleges and
universities, and by the U. S. Public Health Service; it
also contains suggestions made by some other Federal
agencies, by the American Red Cross, and by safety
organizations.
- 62680 Noble, L. W.
FIFTY YEARS OF RESEARCH ON THE PINK
BOLLWORM [PECTINOPHORA GOSYPIELLA] IN THE
UNITED STATES. U. S. D. A. Agr. Handbook 357, 62 p.
Mar. 1969. 1 Ag84Ah
Bibliography, p. 50-62.

Conservation Research Reports

- 62681 Evans, K. E.
CHARACTERISTICS AND HABITAT REQUIRE-
MENTS OF THE GREATER PRAIRIE CHICKEN AND
SHARP-TAILED GROUSE; A REVIEW OF THE LITERA-
TURE. U. S. D. A. Conserv. Res. Rep. 12, 32 p., map.
Dec. 1968. A279.9 Ag8

Farmers' Bulletins

- 62682 U. S. D. A. Agricultural Research Service.
Animal Disease and Parasite Research Divi-
sion.
PREVENTING AND CONTROLLING INTERNAL
PARASITES OF HOGS. U. S. D. A. Farmers' Bull. 2240,
35 p. Apr. 1969. 1 Ag84F

Statistical Bulletins

- 62683 Jones, M. V., and Clayton, L. B.
SUPPLEMENT FOR 1968 TO: WOOL STATIS-
TICS AND RELATED DATA, 1920-64. U. S. D. A. Sta-
tist. Bull. 363, 123 p. May 1969. 1 Ag84St
- 62684 U. S. D. A. Consumer and Marketing Service.
Fruit and Vegetable Division. Market News
Branch.
FRESH FRUIT AND VEGETABLE PRICES,
1968. U. S. D. A. Statist. Bull. 443, 35 p. July 1969.
1 Ag84St

AGRICULTURAL RESEARCH SERVICE

- 62685 Juhas, L.
NUTRITION EDUCATION; AN INTEGRAL
PART OF A SCHOOL FEEDING PROGRAM. Nutr. Pro-
gram News, May/June 1969, 4 p. 1.982 A2N955
- 62686 Beaver, R. G., and Powelson, R. L.
A NEW RACE OF STRIPE RUST PATHOGENIC
ON THE WHEAT VARIETY MORO, CI 13740. Plant Dis.
Rep. 53(2):91-93. Feb. 1969. 1.9 P69P
- A new race of stripe rust, *Puccinia striiformis*
West., was identified from *Triticum aestivum* variety
Moro collected at Bonners Ferry, Idaho on July 15, 1968,
and was tentatively designated W-57. The widely used
breeding line PI 178383 was susceptible (RT-2) at a con-
stant 18°C temperature profile. Rieselbeil gave a near
immune reaction and several of the other 44 lines tested
showed resistance.
- 62687 Nemec, S.
DETERMINATION OF LEAF SPOT RACES IN
SOUTHERN ILLINOIS STRAWBERRY PLANTINGS. Plant
Dis. Rep. 53(2):94-97. Feb. 1969. 1.9 P69P
- Eight cultivated strawberry (*Fragaria x ananassa*)
varieties varying in susceptibility were inoculated
with 27 isolates of *Ramularia tulasnei* Sacc. obtained
from plantings in southern Illinois. None of the 8 varie-
ties inoculated was immune. On the basis of varietal re-
actions to the fungus, the isolates were divided into six
races. Leaves initiated in the fall of the previous year
appeared to be most susceptible 11 to 12 days after
planting.
- 62688 Caviness, F. E.
MELOIDOGYNE INCOGNITA ACRITA INFEC-
TION FAILURE IN AERIAL PARTS OF COTTON. Plant
Dis. Rep. 53(2):97-99. Feb. 1969. 1.9 P69P
- I explored the possibility of using the aerial
parts of cotton plants for determination of resistance or
susceptibility to the cotton root-knot nematode. All at-
tempts to establish an infection were unsuccessful. The
nematode developed to maturity on the roots of rooted
cuttings.
- 62689 Carlson, L. W.
WESTERN GALL RUST ON JACK PINE NURS-
ERY STOCK IN MANITOBA. Plant Dis. Rep. 53(2):100.
Feb. 1969. 1.9 P69P
- Peridermium harknessii.
- 62690 Sutton, B. C., and Lawrence, J. J.
BLACK RIB OF WILLOWS [SALIX] IN MANITO-
BA AND SASKATCHEWAN. Plant Dis. Rep. 53(2):101-102.
Feb. 1969. 1.9 P69P
- A brief account is given of the history and
geographic distribution of *Ciborinia foliolica* (Cash &
Davidson) Whetzel and *C. wisconsinensis* Batra which are
associated with black rib of willows.

- 62691 Hildebrand, E. M.
RUSSET CRACK; A MENACE TO THE SWEET-POTATO INDUSTRY. III. ROLE OF FUNGI IN THE ROOT-LESION PHASE OF RUSSET CRACK. Plant Dis. Rep. 53 (2):103-107. Feb. 1969. 1.9 P69P
- Isolation experiments demonstrated that soil fungi, especially Rhizoctonia, were always involved in root discoloration injury on Jersey type varieties as well as on the others tested, whether in the presence or absence of russet crack virus.
- Fungus discoloration (Rhizoctoniosis) was eliminated from russet crack-infected roots, as well as from virus-free roots of sweetpotatoes, by growing stem cuttings from tips of sprouts in pasteurized sand or soil. By itself, the root-lesion phase of russet crack is a relatively mild and superficial scab-like lesion. That the soil fungi played a positive role in the root-lesion phase of russet crack was demonstrated by subjecting them to Koch's Postulates or "rules of proof" of disease causation.
- The hot water immersion technique (50°C for 10 minutes) controlled Rhizoctonia, scurf, and Fusarium fungi on the surface of sweetpotato roots. Cephalosporium and other heat-resistant fungi were controlled by increasing the length of the heat treatment from 10 to 18 minutes at 50°C.
- 62692 Artman, J. D., Frazier, D. H., and Morris, C. L.
FOMES ANNOSUS AND CHEMICAL STUMP TREATMENT IN VIRGINIA; A THREE-YEAR STUDY. Plant Dis. Rep. 53(2):108-110. Feb. 1969. 1.9 P69P
- Pinus taeda.
- Tests (1965-1968) in Virginia showed the effectiveness of borax and urea in preventing stump invasion by Fomes annosus when applied at the time of first thinning. Laboratory cultures of root samples from all treatments indicated more infection was present than indicated by outward signs. Forty-five percent of the "control" stumps sampled proved to be infected, although no sporophores were present.
- 62693 Kraft, J. M.
CHICKPEA; A NEW HOST OF FUSARIUM SOLANI F. SP. PISL. Plant Dis. Rep. 53(2):110-111. Feb. 1969. 1.9 P69P
- Chickpea (Cicer arietinum) was a host of five isolates of Fusarium solani f. sp. pisi. All isolates caused slightly more root rot of peas than of chickpea.
- 62694 Fisher, F. E.
RESISTANCE IN FLORIDA CITRUS TO CEROSPORA CITRI-GRISEA. Plant Dis. Rep. 53(2):112-114. Feb. 1969. 1.9 P69P
- During the past 4 years, 98 commercial cultivars of Citrus, each budded on 4 different rootstocks, and subject to natural infection by Ceroaspera citri-grisea, were rated for incidence of leaf infection and defoliation. Differences in the amount and severity of disease occurred within cultivars of a scion; variations in disease severity were also influenced by the species used for rootstock.
- 62695 Shekhawat, G. S., Srivastava, D. N., and Rao, Y. P.
SEED INFECTION AND TRANSMISSION OF BACTERIAL LEAF STREAK OF RICE. Plant Dis. Rep. 53(2):115-116. Feb. 1969. 1.9 P69P
- Xanthomonas oryzaeicola.
- 62696 Cotton, J. R., Presley, J. T., and Darvish, F.
DISTRIBUTION OF VERTICILLIUM WILT IN COTTON-GROWING AREAS OF THE U.S. Plant Dis. Rep. 53(2):116-117, map. Feb. 1969. 1.9 P69P
- 62697 Partyka, R. E.
SUGARBEET NEMATODE FOUND ON GARDEN RED BEET IN OHIO. Plant Dis. Rep. 53(2):118. Feb. 1969. 1.9 P69P
- Heterodera schachtii.
- 62698 Kingsland, G. C.
CONTROL OF BARLEY LOOSE SMUT (USTILAGO NUDA) BY A DERIVATIVE OF 1,4-OXATHIN IN SOUTH CAROLINA. Plant Dis. Rep. 53(2):118-120. Ref. Feb. 1969. 1.9 P69P
- Control of loose smut (Ustilago nuda (Jens.) Rostr.) of barley was accomplished in South Carolina by treating seed of three barley varieties with 2,3-dihydro-5-carboxanilido-6-methyl-1,4-oxathin (DCMO), a selective, systemic fungicide, at rates equivalent to 2 and 4 ounces per 100 pounds of seed. No serious phytotoxic effects were observed. No increases in yields or test weights were realized. DCMO had no apparent effect on leaf rust (Puccinia hordei Oth.).
- 62699 Stehman, E. V., and Norton, D. C.
INVASION OF THE HEDYSAREAE BY HETERODERA TRIFOLI. Plant Dis. Rep. 53(2):121-123. Feb. 1969. 1.9 P69P
- In invasion studies, 13 of 17 species of Hedy-sareae were invaded to varying degrees by Heterodera trifolii when artificially inoculated. Extensive invasion of Onobrychis vicifolia occurred, but few cysts were produced. Abundant cyst production occurred only with Aeschynomene virginica. Few cysts were produced in any cultivated member of the Hedsareae.
- 62700 Langdon, K. R., and Esser, R. P.
CACTUS CYST NEMATODE, HETERODERA CACTI, IN FLORIDA; WITH HOST LIST. Plant Dis. Rep. 53(2):123-125. Ref. Feb. 1969. 1.9 P69P
- Four nurseries growing cacti in the Apopka, Florida area were found to be infested with Heterodera cacti. No infestations were found outside this area. Zygocactus truncatus was most heavily infested. Also infested were Mammillaria bocasana and two newly reported hosts, Leuchtenbergia principis and Schlumbergera gaertneri "Makoyana." A comprehensive host list for H. cacti is presented.
- 62701 Al-Shukri, M. M.
LONGEVITY AND ROLE OF VERTICILLIUM-AND FUSARIUM-DISEASED PLANT MATERIALS IN INFECTION OF NEW COTTON CROPS. Plant Dis. Rep. 53(2):126-127. Feb. 1969. 1.9 P69P
- Verticillium dahliae Kleb., V. albo-atrum Reinke & Berth., Fusarium oxysporum f. vasinfectum Shyd. & Hans., and Fusarium No. 43 (Egyptian Fusarium) caused infection to new growing cotton crops by means of the previous crop's dead diseased structures or chlamydospores.
- 62702 Johnson, A. W.
CONTROL OF MELOIDOGYNE INCOGNITA ON BOXWOOD (BUXUS MICROPHYLLA JAPONICA) WITH NEMATOCIDAL DRENCHES. Plant Dis. Rep. 53(2):128-130. Feb. 1969. 1.9 P69P
- At monthly intervals, I applied three applications of a mixture of methanesulfonic acid, 2,4-dichlorophenyl ester and 1,2-dibromo-3-chloropropane (SD 1897: a mixture of SD 7727 and DBCP); O,O-diethyl O-(p-methylsulfinyl)phenyl phosphorothioate; and ethyl 4-(methylthio)-m-tolyl isopropylphosphoramidate (10 percent granules). All treatments controlled Meloidogyne incognita on Japanese boxwood for 5 months. Three applications of acetylhydroxamic acid, thio-S-methyl O-(N-methylcarbamoyl) ester; 2,3-dihydro-2,2-dimethyl-7-benzofuranyl methylcarbamate; ethyl 4-(methylthio)-m-tolyl isopropylphosphoramidate; and a single application of each material at higher rates (3 X) reduced M. incognita; but populations rapidly increased to damaging levels.
- After 1 month, control of nematodes was complete and lasted for 7 months. It was obtained with a single application of SD 1897 and ethyl 4-(methylthio)-m-tolyl isopropylphosphoramidate granules at high rates.
- 62703 Dale, J. L., and Murdoch, C. L.
POLYMYXA (GRAMINIS) INFECTION OF BER-MUDA GRASS. Plant Dis. Rep. 53(2):130-131. Feb. 1969. 1.9 P69P
- Cynodon dactylon X C. transvaalensis.
- 62704 Milholland, R. D.
EFFECT OF SOIL FUMIGATION ON DISEASE CONTROL AND YIELD OF GLADIOLUS IN SOUTHEASTERN NORTH CAROLINA. Plant Dis. Rep. 53(2):132-136. Ref. Feb. 1969. 1.9 P69P
- Broadcast fumigation with methyl bromide at 250 to 300 pounds per acre and a mixture of methyl isothiocyanate and 1,3-dichloropropene (DD-MENCs) at 50 gallons per acre were effective in controlling Fusarium and Stromatinia diseases of gladioli. Both fumigants gave excellent results for control of broadleaf weeds and nutsedge. DD-MENCs at 30 and 40 gallons per acre was beneficial in reducing disease but was not effective for nutsedge control. Planting gladioli corns in double rows, 10 inches apart, does not seem to impair the quality of flower spikes when grown during the spring and summer months in southeastern North Carolina.

- 62705 Ceponis, M. J., Kaufman, J., and Butterfield, J. E.
MOLDY CARPELS IN DELICIOUS APPLES ON THE GREATER NEW YORK MARKET. Plant Dis. Rep. 53 (2):136-138. Feb. 1969. 1.9 P69P
- Moldy carpels were present in 5.0 percent of "Pacific Northwest" and 29 percent of "Virginia Delicious" apples sampled on the Greater New York market over two marketing seasons, 1966-67 and 1967-68. Incidence of moldy carpels was chiefly due to open calyx tubes in the fruits. *Alternaria tenuis* was isolated from moldy carpels of more than 80 percent of 485 fruits in 1967-68. *Leptosphaeria coniothyrium*, *Rhizopus stolonifer* and *Fusarium* spp. were the next most common isolates. In the same season 2.9 percent of the affected fruits had developed core rots.
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CYLINDROCLADIUM SCOPARIUM ON AZALEA IN SOUTH FLORIDA. Plant Dis. Rep. 53(2):139. Feb. 1969. 1.9 P69P
- 62707 Partridge, A. D., and Ward, H. N.
DUTCH ELM DISEASE IN IDAHO, 1968. Plant Dis. Rep. 53(2):140-141, map. Feb. 1969. 1.9 P69P
- Caused by *Ceratocystis ulmi*.
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A PRELIMINARY STUDY ON THE VARIABILITY OF XANTHOMONAS ORYZAE ON SOME RICE VARIETIES. Plant Dis. Rep. 53(2):145-148. Ref. Feb. 1969. 1.9 P69P
- The reaction produced by nine isolates of *Xanthomonas oryzae* on 20 rice varieties was studied by the multiple pin prick inoculation method at both the seedling and flag-leaf stages. Lesion spread was greater at the flag-leaf stage in all varieties except Chinsurah bore II. Kachstung 21, Lacrosse x Zenith-Nira and Wase aikom 3. Some cases of interaction among isolates and varieties between susceptibility at the seedling and flag-leaf stages were noticed. Differential reaction of the varieties with the isolates could be seen, especially at the seedling stage; this establishes the existence of specialization in pathogenicity in *X. oryzae*.
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A SEVERE FORM OF VERTICILLIUM ALBO-ATRUM IN GOSSYPIUM BARBADENSE IN PERU. Plant Dis. Rep. 53(2):149-150. Feb. 1969. 1.9 P69P
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FURTHER EVIDENCE SUPPORTING THE HYPOTHESIS THAT TWO GENETIC SYSTEMS CONTROL DISEASE REACTION TO MAIZE DWARF MOSAIC VIRUS STRAIN A AND STRAIN B. Plant Dis. Rep. 53(2):150-151. Feb. 1969. 1.9 P69P
- 62711 Natour, R. M., and Ahmed, J. M.
CONTROL OF BRANCH WILT DISEASE OF GRAPES. Plant Dis. Rep. 53(2):152-153. Feb. 1969. 1.9 P69P
- Hendersonula toruloides*.
In an attempt to find an effective and economical method to control branch wilt disease of grapes, it was found that the removal of diseased parts at 3-4 cm below the diseased area was the best method of control. Three prominent fungicides were ineffective for control of the fungal growth in both field and laboratory tests. A mercuric compound, however, was highly effective as a wound dresser in field trials and greatly inhibited fungal growth in the laboratory.
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DESMODIUM PANICULATUM, A PERENNIAL HOST OF BEAN POD MOTTLE VIRUS IN NATURE. Plant Dis. Rep. 53(2):154-155. Feb. 1969. 1.9 P69P
- 62713 Guengerich, H. W., Goodman, R. N., and Millikan, D. F.
SOME PRELIMINARY OBSERVATIONS ON CROWN GALL THERAPY WITH CHEMICALS. Plant Dis. Rep. 53(2):155-157. Feb. 1969. 1.9 P69P
- Agrobacterium tumefaciens*.
Fall applications of cyano(methylmercuri) guanidine as a drench accompanying the planting of peach seed reduced the incidence of crown gall. Applications of this same chemical in the spring prevented infection. Copper chelate was less effective, and Terramycin afforded protection only if used in the spring with stratified seed. Terramycin used at a 800 ppm dip gave excellent protection of mazzard rootstocks in spring plantings.
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A STEMPHYLIUM LEAF SPOT OF VICIA FABA IN THE UNITED ARAB REPUBLIC. Plant Dis. Rep. 53 (2):157-159. Feb. 1969. 1.9 P69P
- Stemphylium botryosum* Walbr. is the cause of a previously unreported disease of field bean (*Vicia faba*) in El-Tahrir Province, U. A. R. Disease symptoms appear in the form of leaf spots, which cause rapid defoliation of diseased plants. The fungus is pathogenic to both introduced "Acquadulce" and local "Giza 2" varieties. Preliminary observations indicated the freedom of Upper Egypt bean-growing areas such as El-Fayom and Ben-Suef Provinces from the disease.
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- Tests with aphids transmitting cucumber mosaic.
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FUNGICIDAL CONTROL OF DISEASE IN COTTON. Plant Dis. Rep. 53(2):161-163. Feb. 1969. 1.9 P69P
- Some fungicidal treatments, evaluated for their inhibitory effect on development of the seedling disease complex of cotton under three environments, increased percentage of seedling survival. No fungicide among the 25 tested, however, significantly increased seedling survival under all environments. Under conditions of moderate disease infestation, certain fungicidal treatments reduced stands to below those of the check.
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Significantly less soil moisture was lost following fumigation with a knife applicator that cut into the side of the bed than when a conventional chisel applicator was used in the center of the bed. The seedbeds remained firm.
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- An extensive study of corn and soybean diseases in Rio Grande do Sul, Brazil revealed the presence of several major diseases of both of these crops. The most important diseases of corn were rust, northern leafblight, and southern leafblight. An unknown disease was prevalent. The most widespread diseases of soybeans were bacterial blight and bacterial pustule. Although these corn and soybean diseases were widespread, they were not often the cause of major yield reductions, very likely because of drought-like weather conditions which prevailed during a major part of the growing season.
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THE EVALUATION OF SELECTED NAVAL STORES DERIVATIVES AS AGRICULTURAL CHEMICALS. U. S. Agr. Res. Serv. ARS-72-68, 22 p. Jan. 1969. A381 R31
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COMPOSITION AND FINE STRUCTURE OF COTTON FIBERS GROWN IN CONTROLLED ENVIRONMENTS. U. S. Agr. Res. Serv. ARS-72-70:22-34. May 1969. A381 R31
- Deltapine cotton grown under continuous illumination and at controlled temperatures was harvested at intervals from 20 days after blossoming to boll opening. Fiber maturity and composition, cellulose crystallinity and accessibility, and response to differential dyeing were measured. In open bolls the X-ray crystalline index increased with increasing average daily temperature. Rate of fiber maturation, whether measured by observation under polarized light or by changes in cellulose and sugar content, was temperature-dependent but in a complex manner. Accessibility of the fiber cellulose, as measured by iodine sorption, dye sorption, and enzymatic attack, was very high in young fibers and decreased as the fibers matured. Rate of decrease in accessibility was much lower when bolls had been grown at low temperatures.
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EFFECTS OF SUBSTITUENTS AND GEOMETRY OF 4,5-DIHYDROXY-2-IMIDAZOLIDINONE ON REACTIVITY AND ON HYDROLYSIS OF CELLULOSE DERIVATIVES. U. S. Agr. Res. Serv. ARS-72-70:35-40. May 1969. A381 R31
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The 4,5-dihydroxy-2-imidazolidinone system (I), regardless of the substituent in the 1,3-positions, has been known for some time to be an effective crosslinking system for cellulose. The ring hydroxyls and the pendent methyl groups are both capable of reaction under relatively mild crosslinking conditions. Although much has been written about some members of this system, the effects of geometry of the ring hydroxyls and of impurities in the system have received little attention. Some of these effects are discussed as are the properties of the finished fabrics derived from I.
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- 62726 Honold, E.
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- The alkali centrifuge values (ACV's) permit the swellabilities of cotton fibers to be characterized quantitatively in terms of sorption of caustic solution of mercerizing strength. Durable-press cotton samples were evaluated by the alkali swelling centrifuge test. The resultant ACV's emphasized the varied alterations in intrafiber structure that were achieved by crosslinking cottons. In general, crosslinking reduced the swelling capacity of the fibers—by as much as 80 percent in one process. Certain conditions or stages in some treatments produced increased sorptivity. The alterations in ACV were dependent upon various factors in the processes, for example, cross-linking agent, degree of modifications, method of treatment, catalyst, and curing temperature.
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ROT RESISTANCE OF COTTON FABRIC TREATED WITH VARIOUS FLAME RETARDANTS. U. S. Agr. Res. Serv. ARS-72-70:76-81. May 1969. A381 R31
- Several durable flame retardant finishes were applied (using either a heat cure or a chemical fixation technique) to three different cotton fabrics at various add-ons, and evaluated for rot resistance. In general, the heat-cured samples afforded better resistance to microorganism attack than the chemically fixed ones. One APO-THPC treated sateen sample with about 30-percent add-on retained over 100 percent breaking strength after three months, and a THPC-MM sample (20-percent add-on) retained 76-percent strength after 3 months. The treated samples having the best rot resistance also offered some protection against acid and had improved dimensional stability.
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- The effects of weave, yarn size, and yarn twist on the durable-press properties of medium weight, all-cotton suiting fabrics are reported. Fabrics woven from several twill, plain, and sateen weaves were evaluated. Relationships between the home laundry performance of these fabrics and laboratory abrasion tests are discussed.
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equipment and products by wet processing of alfalfa.
This approach to alfalfa processing is expected to lead
to a wide variety of products including (a) a xanthophyll
concentrate for poultry rations, (b) a protein concen-
trate for poultry and swine rations, (c) a water-soluble
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twice weekly and permitted to dry by evapotranspiration
between water additions.
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in a shared environment reduced growth of the white
spruce, showing inhibitory effects of competition. Fac-
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tics have different probabilities of being included in re-
creation surveys, the resulting averages for these charac-
teristics can be severely biased unless special computa-
tional procedures are used. This paper describes the use
of two computer programs for correcting biases that
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stay, (b) known probabilities for sampling each individual,
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WESTERN WHITE PINE SEEDLINGS. U. S. Forest Serv.
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In one test, 45 out of 318 (14 percent) needle
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Dougl. were rooted. Eight of the needle fascicles pro-
duced shoot growth.
- 62825 Bingham, R. T., and Wise, K. C.
WESTERN WHITE PINE CONES POLLINATED
WITH 1- TO 3-YEAR-OLD POLLENS GIVE GOOD SEED
YIELDS. U. S. Forest Serv. Res. Note INT-81,3 p. 1968.
A99.9 F764Un
Filed seed yields of Pinus monticola cones
from 55 controlled crosses made with 1- to 5-year-old,
deep-freeze-stored pollens were compared with yields
from other fresh-pollen crosses made on the same trees
in the same pollination seasons. Observations covered
four pollination seasons, and on the average involved
about 11 trees, and 14 stored-pollen and 25 fresh-pollen
crosses thereon, per season. One- to 3-year-old pollens
gave 52 to 110 percent of the yield observed for fresh
pollens, and there was some evidence that 4- and 5-year-
old pollens might also be satisfactory for routine use.
- 62826 Schmidt, R. E., and Herbert, R.
DEVELOPMENT OF A TORSIONAL DYNAMO-
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This report presents the design and evaluation
of a photoelectric device used for measuring the input
power requirements of rotating machinery. Mechanical
and electronic design considerations are presented, along
with an operational evaluation of the device.

- 62827 Benson, R. E., and Host, J. R.
FACTORS THAT AFFECT CHOICE OF SHELVING MATERIALS IN SINGLE-FAMILY HOMES. U. S. Forest Serv. Res. Note INT-83,6 p. 1968. A99.9 F764Un
Survey of homebuilders shows that lumber is predominant material used for shelving in single-family homes but builders have considerable interest in other materials such as particleboard and metal in order to eliminate warp and reduce installation and finishing costs.
- 62828 Philpot, C. W.
MINERAL CONTENT AND PYROLYSIS OF SELECTED PLANT MATERIALS. U. S. Forest Serv. Res. Note INT-84,4 p. 1968. A99.9 F764Un
Recent studies of pyrolysis of plant materials indicate that the rate of thermal degradation and the amount of volatile materials formed are directly related to the silica-free ash content (SFA) of the material. However, plants with SFA above 12 percent that were tested did not fit these relationships. Evidence was found that only certain constituents of SFA are effective in inhibiting pyrolysis.
- 62829 Hatch, C. R., and Lotan, J. E.
NATURAL REGENERATION OF DOUGLAS-FIR IN CENTRAL MONTANA. U. S. Forest Serv. Res. Note INT-85,4 p. 1969. A99.9 F764Un
Relations between Douglas-fir regeneration and seedbed surface conditions that influence natural restocking were analyzed. Undisturbed duff produced significantly greater number of seedlings per acre than five of seven seedbeds tested.
- 62830 Bingham, R. T., Wise, K. C., and Wells, S. P.
ABERRANT CONES IN WESTERN WHITE PINE. U. S. Forest Serv. Res. Note INT-86,4 p. 1969. A99.9 F764Un
Two rare cone forms—proliferated and forked—are reported and illustrated for *Pinus monticola*. The latter form may be unique to this species, and may be genetically controlled. In addition, genes controlling the "forked-cone" trait may be linked with recessive genes associated with chlorophyll deficiencies of *P. monticola* foliage.
- 62831 Fowler, W. B.
A DIGITAL TEMPERATURE MONITOR FOR PHOTORECORDING. U. S. Forest Serv. Res. Note PNW-95,7 p. Jan. 1969. A99.9 F7625U
A method of digitizing atmospheric measurements for portrayal with a time-lapse camera is described. A servomechanism rebalances a resistance bridge which has the temperature sensor as an active component. A mechanically coupled encoder determines the proper combination of relay closures which, in turn, causes the temperature to be projected by means of a light bank.
- 62832 Haines, W. H. B.
PULPWOOD PRICES IN THE SOUTHEAST, 1962-1967. U. S. Forest Serv. Res. Note SE-92,2 p. Aug. 1968. A99.9 F7623Un
Average prices paid for both pine and hardwood bolts from all sources increased by about 16 percent between 1962 and 1967—from \$16.55 to \$19.25 per cord for pine, and from \$13.40 to \$15.55 per cord for hardwood. Pine and hardwood chip prices increased by 17 and 22 percent, respectively, over the same period. Except for hardwood bolts, however, increases in pulpwood prices in 1967 were substantially below the increases in 1966.
- 62833 Carpenter, B. E., and Schroeder, J. G.
COMBINED EFFECTS OF DRYING, SURFACING, AND TRIMMING ON GRADE AND VOLUME OF SOUTHERN PINE LUMBER. U. S. Forest Serv. Res. Note SE-93,3 p. Sept. 1968. A99.9 F7623Un
This paper shows how the grade and volume of 1-inch and dimension lumber changed due to drying, surfacing, and remanufacturing during a southern pine lumber yield study.
- 62834 Ike, A. F.
SYMPTOMS OF NUTRIENT DEFICIENCY IN YELLOW-POPLAR [*LIRIODENDRON TULIPIPERA*] SEEDLINGS. U. S. Forest Serv. Res. Note SE-94,4 p. Oct. 1968. A99.9 F7623Un
Visual symptoms are described for leaves of yellow-poplar seedlings supplied N, P, and K in varying concentrations ranging from minimal to excessive. Probability of growth responses to added N is high when tissue levels are below 2 percent; none is likely when they exceed 3 percent.
- 62835 Squillace, A. E., and Gansel, C. R.
ASSESSING THE POTENTIAL OLEORESIN YIELDS OF SLASH PINE [*PINUS ELLIOTTII*] PROGENIES AT JUVENILE AGES. U. S. Forest Serv. Res. Note SE-95,4 p. Oct. 1968. A99.9 F7623Un
The potential oleoresin yields of slash pine progenies can be assessed at juvenile ages, 7 to 8 years earlier than with previous methods. Seeds are sown in peat pots, outplanted shortly after germination at a spacing of 1 1/2 by 3 feet, and given intensive cultural treatment. At 2 1/2 years from seed, when the trees average about 9 feet tall, their potential yields are evaluated by a miniature chipping technique.
- 62836 Knight, H. A.
A PREVIEW OF "SOUTH CAROLINA'S TIMBER, 1968." U. S. Forest Serv. Res. Note SE-96,4 p. Oct. 1968. A99.9 F7623Un
A fourth survey of South Carolina's timber resource shows that over the past 10 years the area of commercial forest land has increased by 4 percent and the volume of growing-stock timber by 19 percent. In 1967, net growth of growing stock exceeded removals by over 200 million cubic feet, or 48 percent.
- 62837 Merkel, E. P.
FIELD SCREENING OF INSECTICIDES FOR CONTROL OF THE PINE SEEDWORM, *LASPYESIA ANARAJADA* MILLER. U. S. Forest Serv. Res. Note SE-97,2 p. Oct. 1968. A99.9 F7623Un
Three insecticides—Gardona, fenthion, and Azodrin, effectively controlled the pine seedworm, *Laspysia anarajada*, on second-year slash pine cones in a field screening test.
- 62838 McClure, J. P.
SECTIONAL ALUMINUM POLES IMPROVE LENGTH MEASUREMENTS IN STANDING TREES. U. S. Forest Serv. Res. Note SE-98,4 p. Nov. 1968. A99.9 F7623Un
The use of sectional aluminum poles to measure lengths in standing trees can reduce bias and improve measurement precision. The method has been tested extensively under a variety of field conditions by Forest Survey crews in the Southeast. Over 16,000 trees with lengths up to 120 feet have been measured over the past 5 years.
- 62839 McClure, J. P.
PREDICTING TREE D. B. H. FROM STUMP MEASUREMENTS IN THE SOUTHEAST. U. S. Forest Serv. Res. Note SE-99,4 p. Dec. 1968. A99.9 F7623Un
When a tree has been cut and only the stump remains as an indicator of tree size, a prediction equation can be used to estimate d.b.h. from stump measurements. An improved equation model was developed from stump measurement data collected by Forest Survey special study crews in North Carolina, Virginia, and South Carolina. Independent samples from Virginia and South Carolina were used to test equations derived from only the North Carolina sample, and a pooled sample of over 14,000 trees was used to compute equation coefficients for 53 southeastern tree species.
- 62840 Webb, C. D., and Farmer, R. E.
SYCAMORE SEED GERMINATION: THE EFFECTS OF PROVENANCE, STRATIFICATION, TEMPERATURE, AND PARENT TREE. U. S. Forest Serv. Res. Note SE-100,6 p. Dec. 1968. A99.9 F7623Un
Various stratification periods and germination temperatures were applied to sycamore seed collected along the Chattahoochee River from north Georgia to west Florida. Results showed that percent and speed of germination were greater for seed from southern than from northern provenances. Percent and speed of germination increased as temperature increased. The interaction of provenance with stratification was significant only for germination speed. When seed were kept separate by parent tree, seed from isolated trees had poorer germination than did seed from trees growing near other sycamores.
- 62841 Fitzinger, C. W., and DeBarr, G. L.
HOW TO DISTINGUISH ATTACKS BY THE BLACK TURPENTINE BEETLE AND DIORYCTRIA AMATELLA ON SOUTHERN PINES. U. S. Forest Serv. Res. Note SE-101,4 p. Jan. 1969. A99.9 F7623Un
Trunk attacks by the black turpentine beetle, *Dendroctonus terebrans* (Oliv.), and the larvae of *Dioryctria amatella* (Hulst) on the southern pines results in a unique flow of pitch. This external pitch mass or pitch tube exhibits characteristics that can be used as symptoms to distinguish between attacks by these two insects.

- 62842 Cooper, R. W.
PRELIMINARY GUIDELINES FOR USING SUPPRESSION FIRES TO CONTROL WILDFIRES IN THE SOUTHEAST. U. S. Forest Serv. Res. Note SE-102, 2 p. Jan. 1969. A99.9 F7623Un
- Suppression firing is defined as the application of fire to speed or strengthen control action on free-burning wildfires. The key to successful suppression firing is availability of personnel knowledgeable in specific application plus an adequate supply of manpower and equipment to contain the set fire. Preliminary guidelines for the use of this fire-control tool are presented for the technologist.
- 62843 Philpot, C. W., and Mutch, R. W.
FLAMMABILITY OF HERBICIDE-TREATED GUAVA FOLIAGE. U. S. Forest Serv. Res. Paper INT-54, 9 p. 1968. A99.9 F764U
- Chemicals and burning to control guava. Guava leaves treated with herbicide were found to be less flammable than untreated green leaves or dead leaves. Differences in flammability were determined by small-scale laboratory fires, differential thermal analysis (DTA), and thermogravimetric analysis (TGA). The herbicide-treated leaves had a higher ash content and a lower ether extractive content. A direct relationship was found between TGA and DTA and actual burning tests. Apparently, the results of microthermal analyses of pyrolytic reactions can be used as an indication of the behavior of the fuel in small-scale burning tests.
- 62844 Benson, R. E.
FACTORS THAT AFFECT THE SINGLE-FAMILY HOME MARKET FOR WOOD WINDOWS. U. S. Forest Serv. Res. Paper INT-55, 13 p., map. 1968. A99.9 F764U
- Nation shows wide geographical variations in window materials used in new single-family homes. Appearance, style, price, and performance influence choice and thus contribute to these variations. Current trends in the new single-family home market, improvements in window materials, and relative prices of aluminum and wood windows are key factors in the market outlook for wood windows.
- 62845 Anderson, H. E.
SUNDANCE FIRE [IDAHO]; AN ANALYSIS OF FIRE PHENOMENA. U. S. Forest Serv. Res. Paper INT-56, 37 p., map. 1968. A99.9 F764U
- The Sundance Fire on September 1, 1967, made a spectacular run of 16 miles in 9 hours and destroyed more than 50,000 acres. This run became the subject of a detailed research analysis of the environmental, topographic, and vegetation variables aimed at reconstructing and describing fire phenomena. This report details the fire's progress; discusses the fire's buildup in intensity, the fuel complex through which it traveled, the wind and other atmospheric variables affecting the fire's behavior; and describes the processes that probably account for the tree breakage and blowdown, the long-range spotting, and the subsidence of the fire's run.
- 62846 Benson, R. E.
FACTORS THAT AFFECT USE OF WOOD SIDING MATERIALS IN SINGLE-FAMILY HOMES. U. S. Forest Serv. Res. Paper INT-57, 10 p., map. 1968. A99.9 F764U
- A survey of builders in 20 cities throughout the Nation shows preferences for siding materials vary regionally. Wood-based sidings are favored for appearance and workability, but are more difficult to maintain than are several other leading nonwood siding materials. The market outlook for wood sidings depends partly on improving maintenance and other performance properties and partly upon the continuing esthetic appeal of wood to home buyers.
- 62847 Leak, W. B., Filip, S. M., and Solomon, D. S.
RATES OF VALUE INCREASE FOR YELLOW BIRCH IN NEW ENGLAND. U. S. Forest Serv. Res. Paper NE-120, 11 p. 1968. A99.9 F7622Un
- Compound interest rates of value increase, over a 10-year period, were computed for yellow birch for a range in vigor class (growth rate), veneer-log and sawlog grades, merchantable height, and d.b.h. An improvement in log grade over the period resulted in moderate to high compound interest rates. Otherwise rates were low. Recommendations on tree marking and choice of optimum harvest size are given, based on grade-improvement potentials.
- 62848 Lucas, J. T., and Wallin, W. B.
THE DEPARTMENT OF DEFENSE MARKET FOR WOODEN PALLETS. 1966. U. S. Forest Serv. Res. Paper NE-122, 19 p., map. 1968. A99.9 F7622Un
- Discusses the 1966 Department of Defense (DOD) market for wooden pallets. Describes the kinds and quantities of pallets needed, when and where pallets are needed, how the pallets are purchased, sources of pallet supply, and pallet prices.
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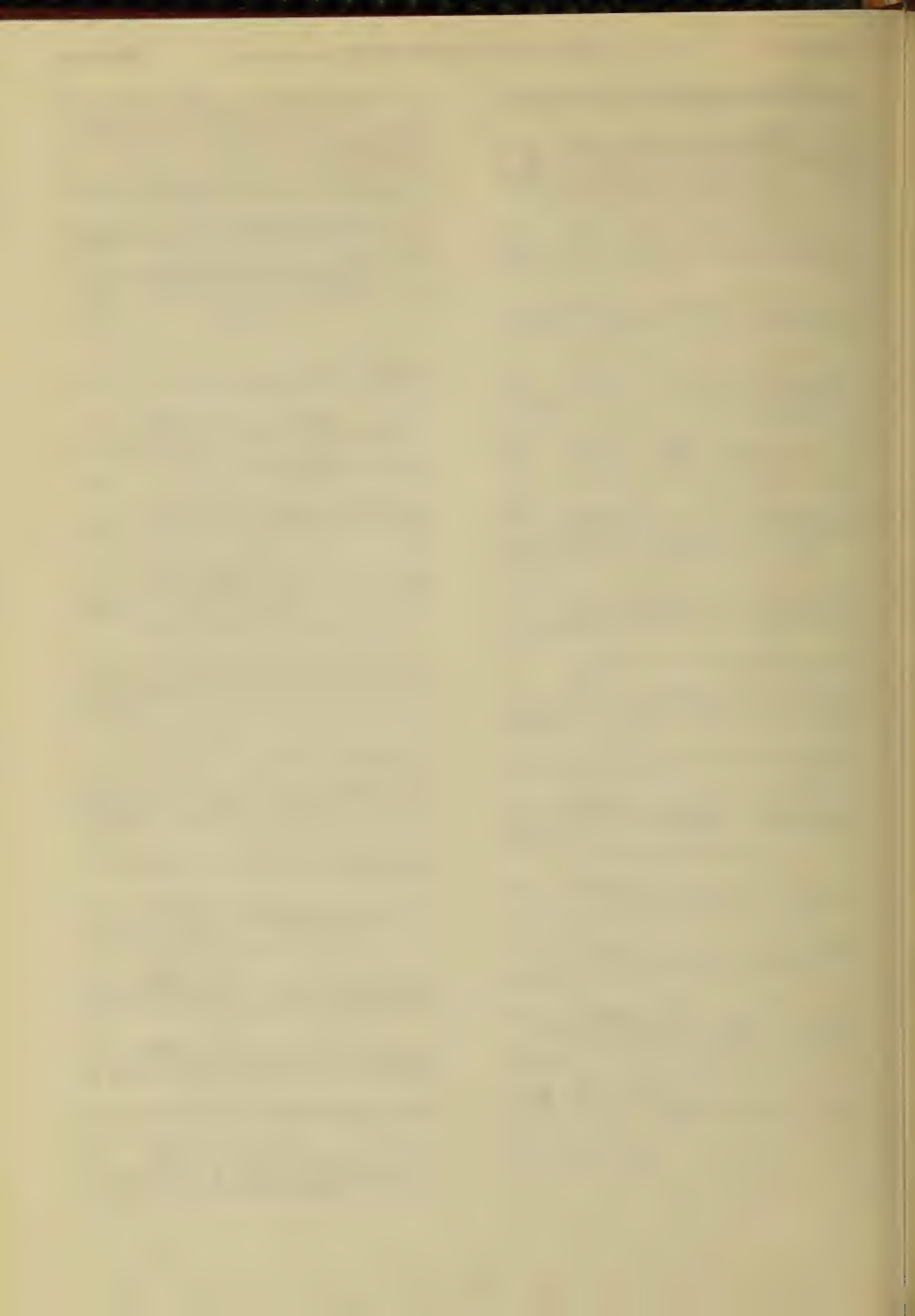
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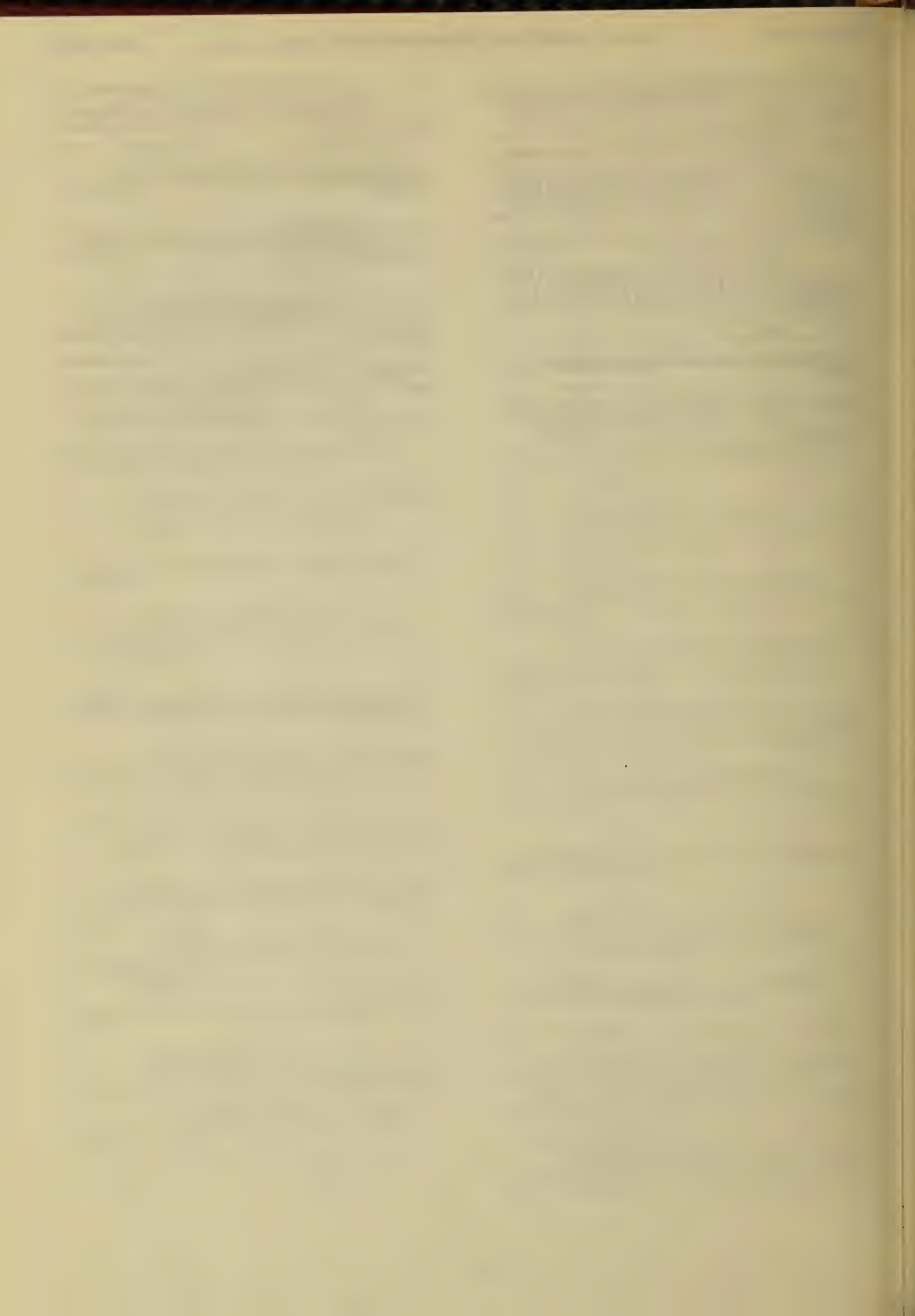
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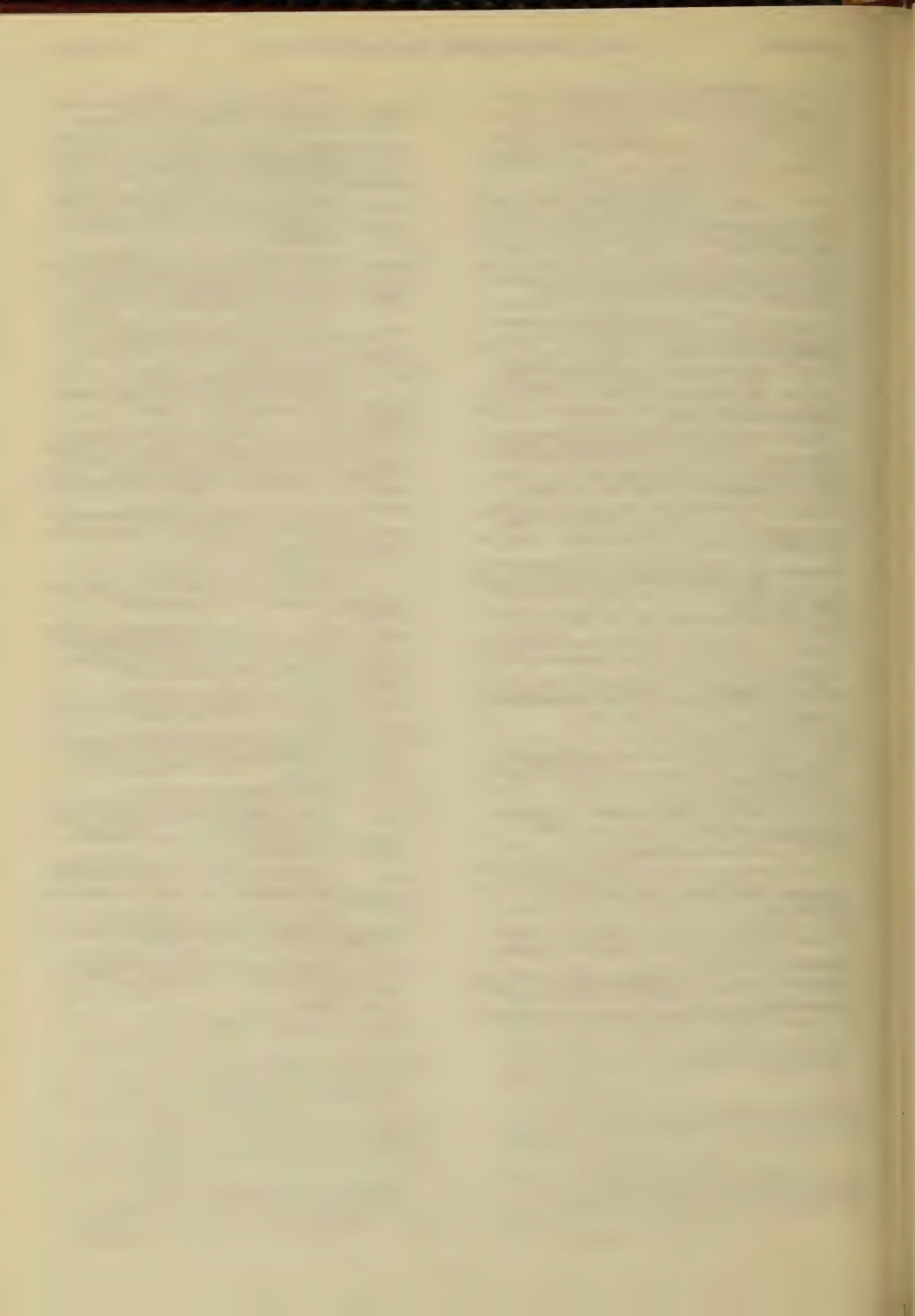
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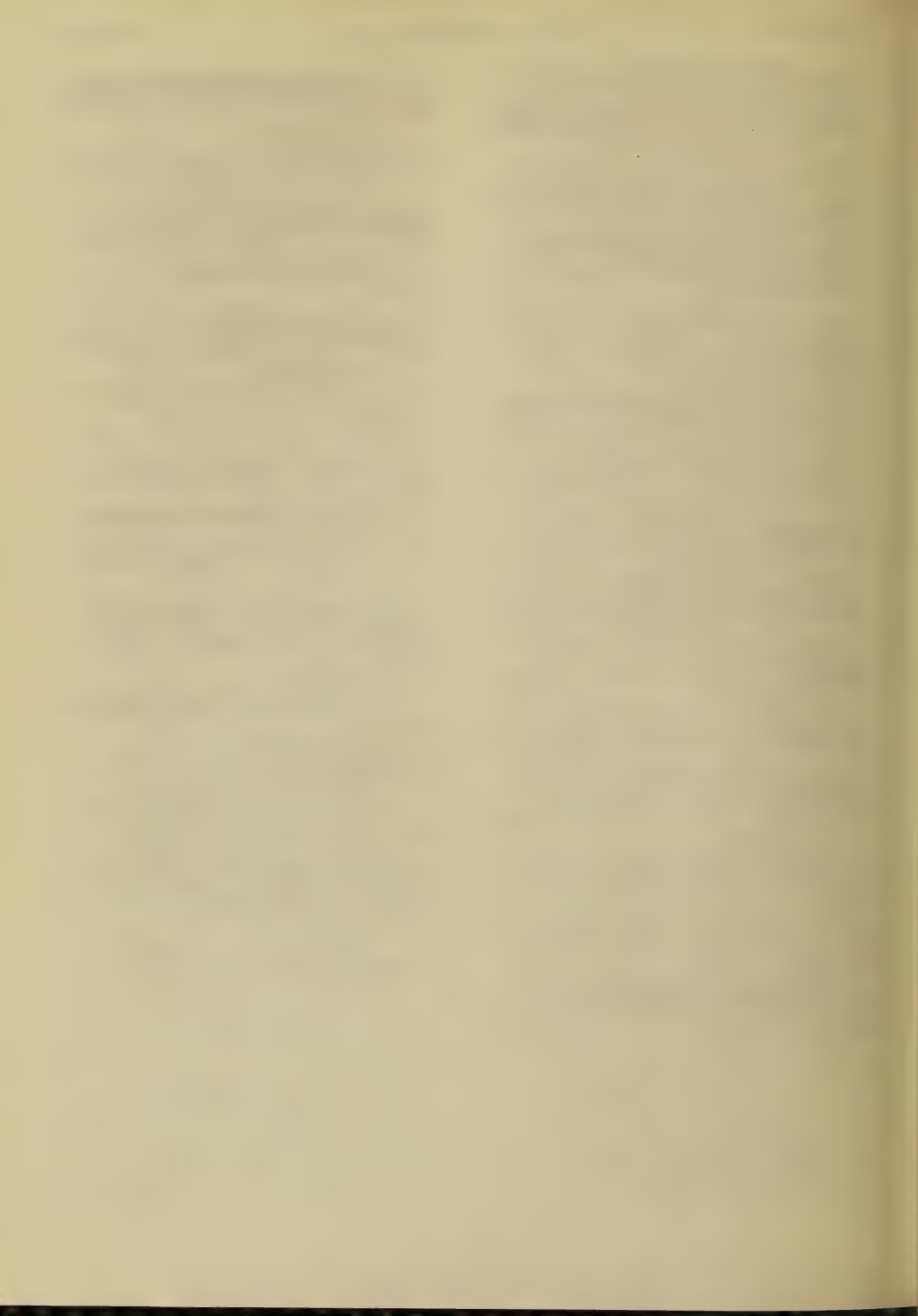
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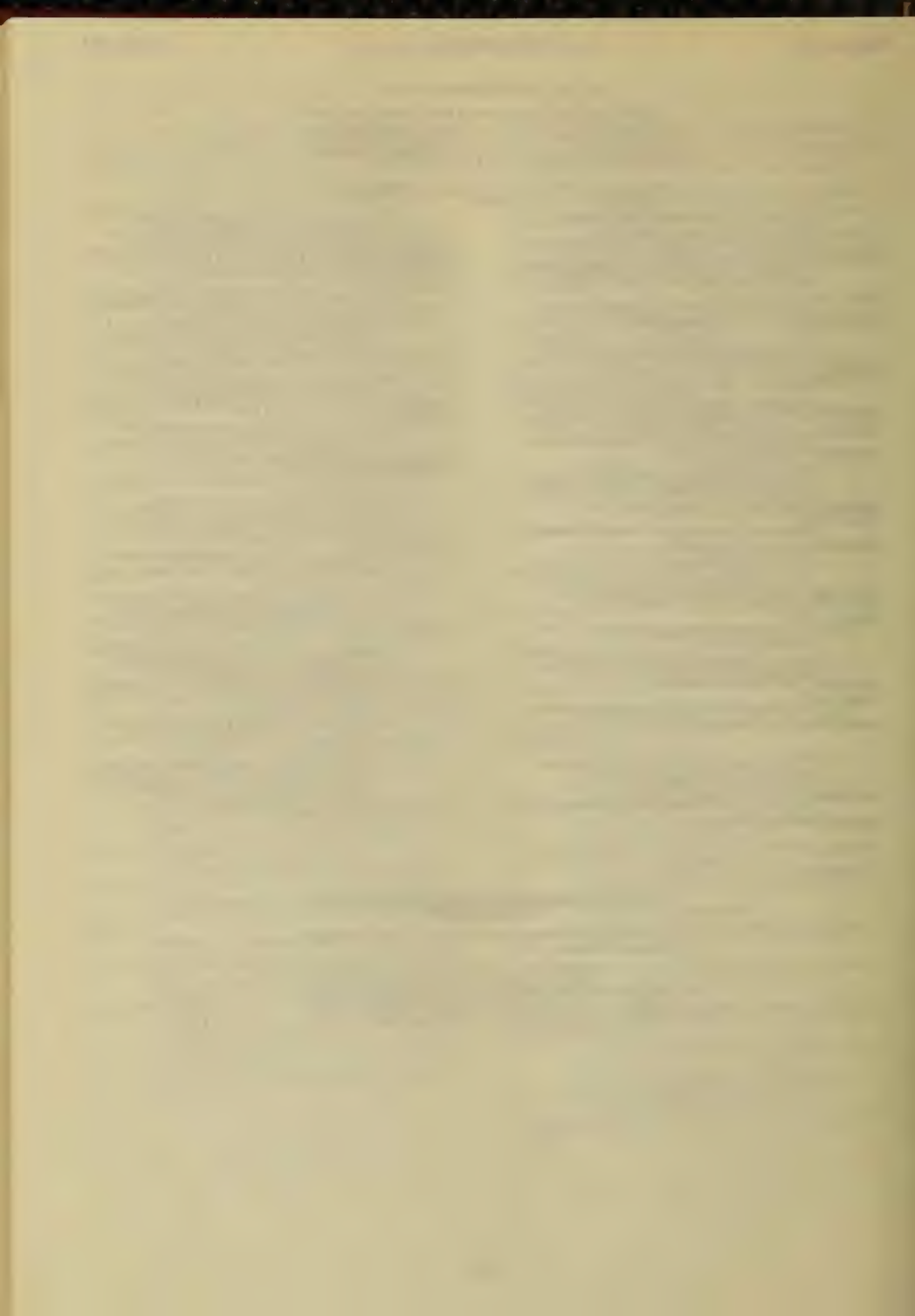
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